ENGLISH
DEUTSCH
FRANÇAIS
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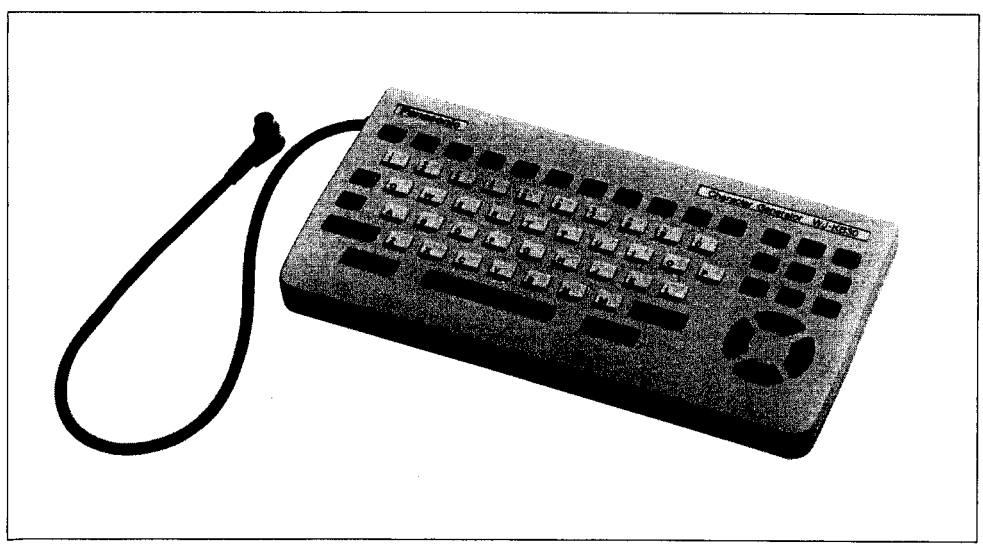
ESPAÑOL
NEDERLANDS

Operating Instructions

Character Generator

WJ-KB30E



Panasonic

Before attempting to connect or operate this product, please read these instructions completely

ENGLISH VERSION

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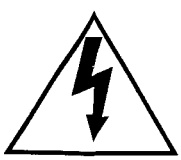
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompa-nying the appliance.

The serial number of this product may be found on the bottom of the unit.
You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. _____

Serial No. _____

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

DEAR CUSTOMER

We would like to take this opportunity to thank you for purchasing a Panasonic Character Generator. Please read this Operating Instructions carefully and keep it for later reference, in case you want to see something in the future.

FEATURES

This Character Generator features the following functions and operations when used in combination with the specified Panasonic Digital AV Mixer.

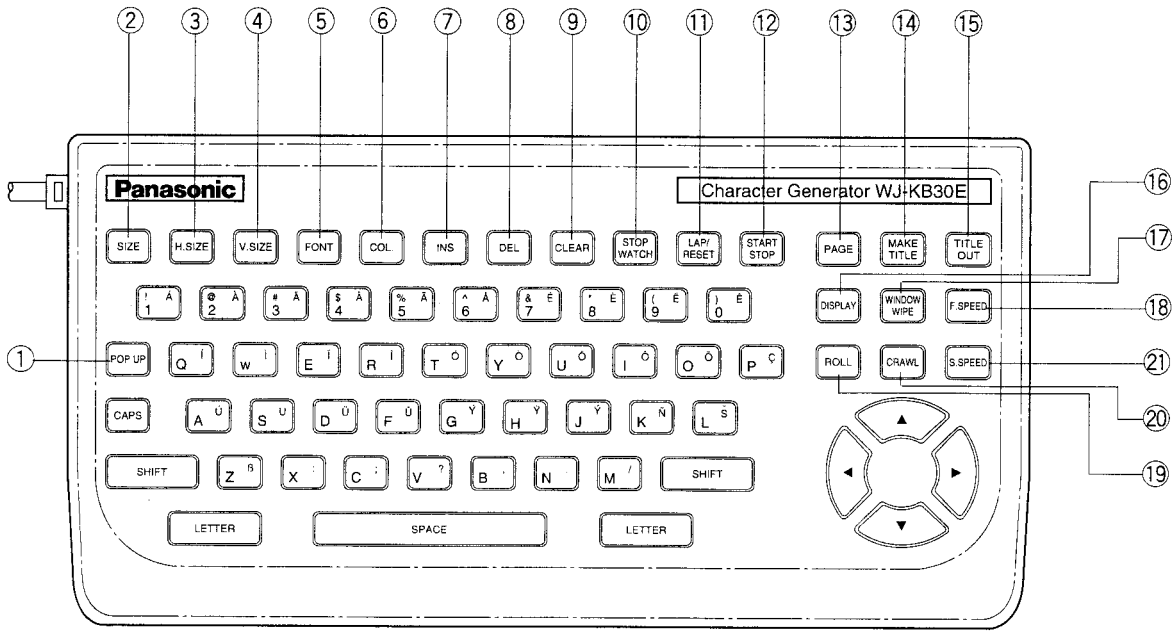
- Full key board and 24 dot font
- Various style of types including Roman, Gothic and Italic.
- Ten pages of character display and various title output functions such as Scroll, Wipe, Window Wipe, Roll and Crawl.
- Display of stopwatch with lap time.

ENGLISH

PRECAUTIONS

DON'T	DO'S
• Do not attempt to disassemble the unit. In order to prevent electric shock, do not remove screws or covers. There are no user-serviceable parts inside.	• Refer all servicing to qualified service personnel.
• Do not abuse the unit. Avoid striking, shaking etc. It could be damaged by improper handling or storage.	• Handle the unit with care.
• Do not use strong or abrasive detergents when cleaning the unit body.	• Use a dry cloth to clean the unit when dirty. In case dirt is hard to remove, use a mild detergent and wipe gently.
• Do not expose the unit to water or moisture, and do not operate it in wet or humid areas.	• Take immediate action if ever the unit should become wet. Turn the power off and refer servicing to qualified service personnel. Moisture can damage the unit and also create the danger of electric shock.
• Do not use the unit in an extreme environment or high temperature or high humidity.	• Use the unit at ambient temperature from +5°C to 40°C (41°F - 104°F) and humidity below 90%.

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



1. Pop Up Key (POP UP)
2. Size Selection Key (SIZE)
3. Horizontal Size Selection Key (H.SIZE)
4. Vertical Size Selection Key (V.SIZE)
5. Font Selection Key (FONT)
6. Colour Selection Key (COL.)
7. Insertion Key (INS)
8. Delation Key (DEL)
9. Clear Key (CLEAR)
10. Stop Watch Key (STOP WATCH)
11. Lap/Reset Selection Key (LAP/RESET)
12. Start/Stop Selection Key (START STOP)
13. Page Selection Key (PAGE)
14. Make Title Key (MAKE TITLE)
15. Title Out Key (TITLE OUT)
16. Display Key (DISPLAY)
17. Window Wipe Key (WINDOW WIPE)
18. Fast Speed Selection Key (F.SPEED)
19. Roll Key (ROLL)
20. Crawl Key (CRAWL)
21. Slow Speed Selection Key (S.SPEED)

Make Title Mode

Key		Ref. page	+ Shift	Ref. page
PAGE (13)	Page selection	6	Initialize of selected page	37
SIZE (2)	Character size selection	11	Character size selection on a line	13
V SIZE (4)	Character's vertical size selection	12	Character's vertical size selection on a line	13
H SIZE (3)	Character's horizontal size selection	12	Character's horizontal size selection on a line	13
FONT (5)	Font selection	16	Font selection on a line	16
COLOUR (6)	Colour selection	17	Colour selection on a line	17
INS (7)	Insertion/Overwrite selection	10	Line Feed	10
DEL (8)	Character deletion	19	Line deletion	19
CLEAR (9)	Page reset	19	All page reset	37
CAPS	Capital letter/small letter selection	8		
▲	Upward movement of cursor	6	Upward adjustment of character position	18
▼	Downward movement of cursor	6	Downward adjustment of character position	18
◀	Leftward movement of cursor	6	Leftward adjustment of character position	18
▶	Rightward movement of cursor	6	Rightward adjustment of character position	18
POP UP (1)	Special character input	9	Special character continuous input	9

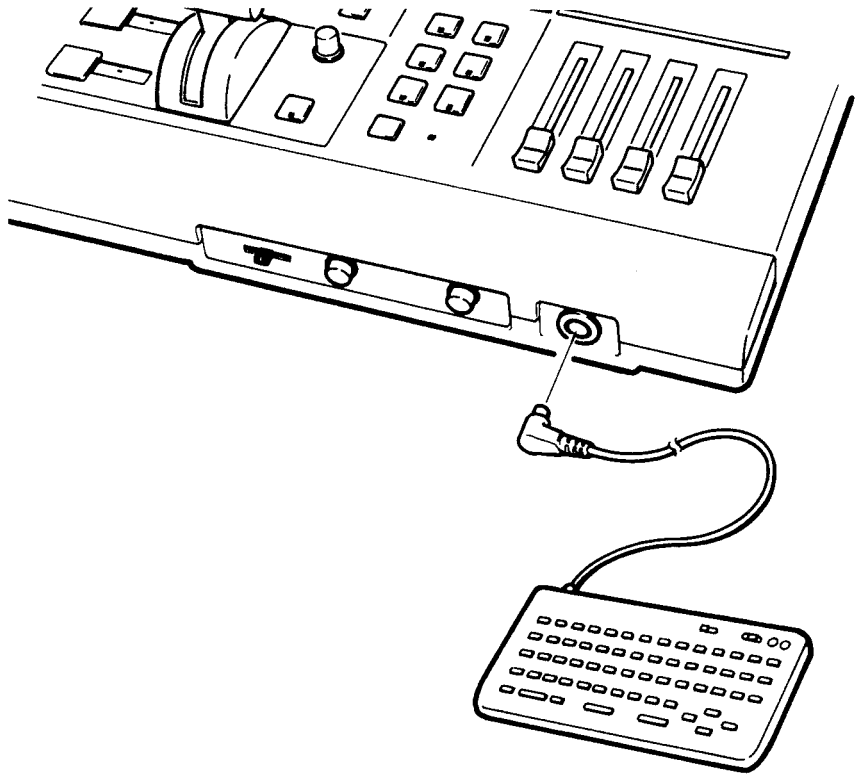
Title Out Mode

Key		Ref. page	+ Shift	Ref. page
Numeral	Page selection	20	Page setting for Roll and Crawl	22,32
DISPLAY (16)	Display/Stand-by selection	20	One by one display	21
▲	Upward scroll	24	Upward wipe	28
▼	Downward scroll	24	Downward wipe	28
◀	Leftward scroll	24	Leftward wipe	28
▶	Rightward scroll	24	Rightward wipe	28
WINDOW WIPE (17)	Window wipe operation	26	Curtain wipe operation	30
ROLL (19)	Roll operation	22	Endless roll operation	23
CRAWL (20)	Crawl operation	32	Endless crawl operation	32
S. SPEED (21)	Speed down	34		
F. SPEED (18)	Speed up	34		
SPACE	Stop/Reoperate selection			
STOP WATCH (10)	On/Off selection	35		
LAP RESET (11)	Lap/Reset selection in stop watch on mode	35		
START STOP (12)	Start/Stop selection in stop watch on mode	35		

Note: **Initialize means;** Set all conditions except character information to default.
Reset means; Set all conditions to default.

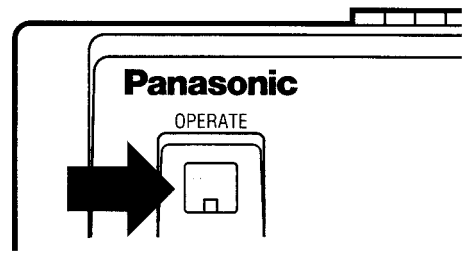
CONNECTION

Connect the interface plug to the AV Mixer WJ-MX30 after turning the power on.

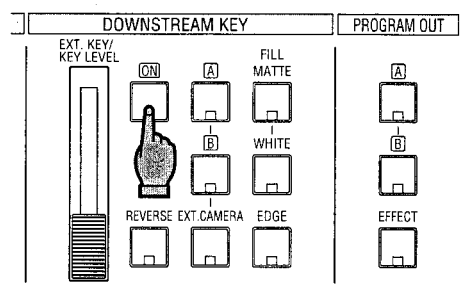


PREPARATION

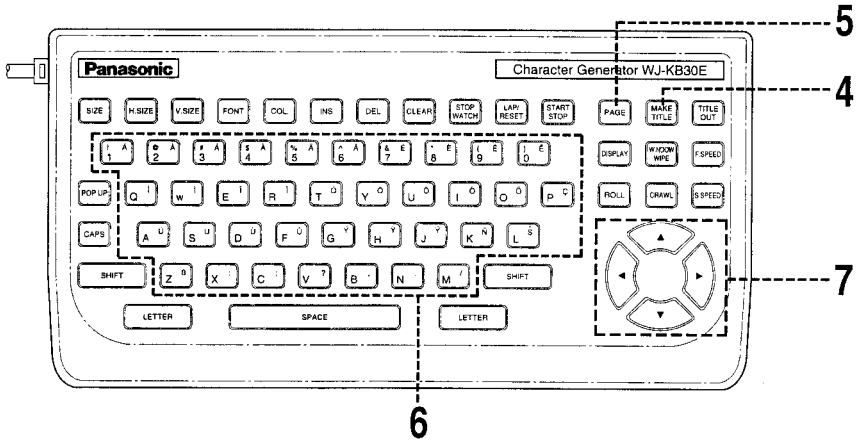
1 **Turn on the power for the AV Mixer WJ-MX30 and Monitor.**



2 **Turn on the DSK ON/OFF Button of the AV Mixer.**

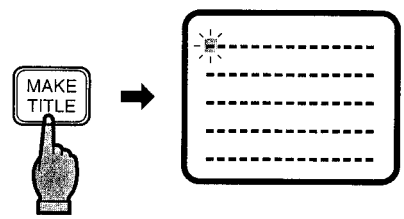


MAKE TITLE OPERATION



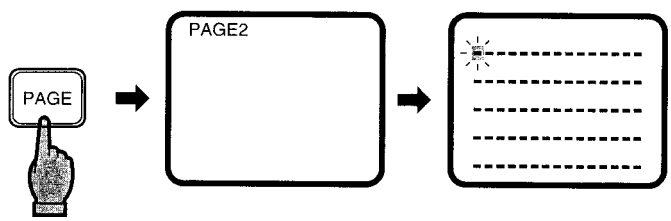
4 Press MAKE TITLE Key.

Input Screen will be displayed on the monitor.

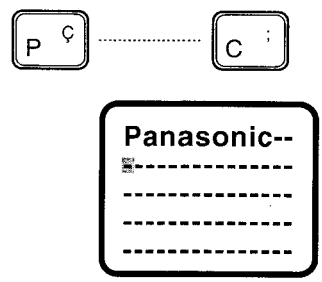


5 Press PAGE Key.

By pressing this button repeatedly, the page number is displayed for 1 second at the upper left screen to " PAGE 10" from "PAGE 1".



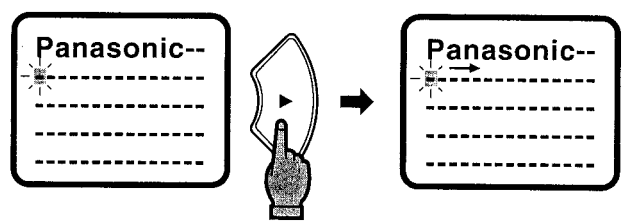
6 Press the desired Character or Numeral Key.

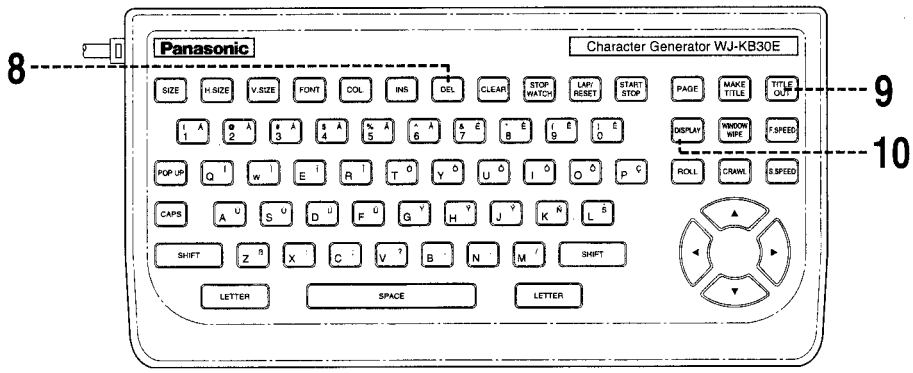


7 Press (▶), (◀), (▲) or (▼) Key to move the cursor.

Holding the pressed key down, moves the cursor continuously.

Note: The cursor does not move from the top or bottom of the screen.

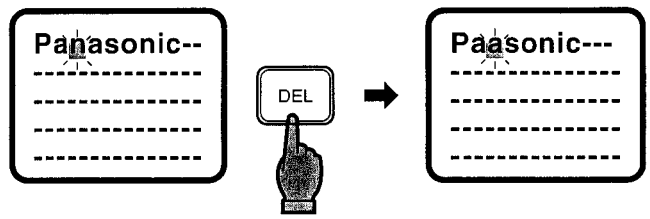


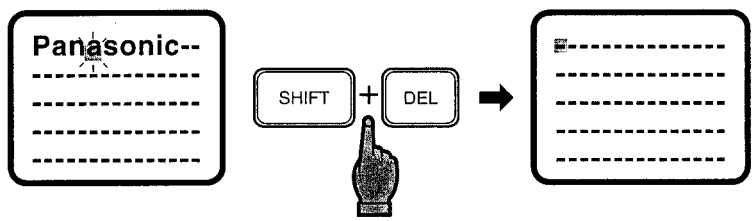


8 Press DEL Key.

The character where the cursor is positioned will be erased.

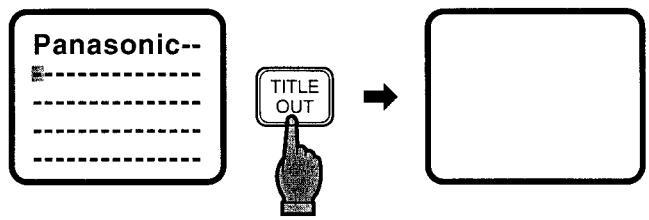
To erase the characters on the line, press Shift Key (SHIFT) + Deletion key (DEL) (8) on the desired line where the cursor is positioned.





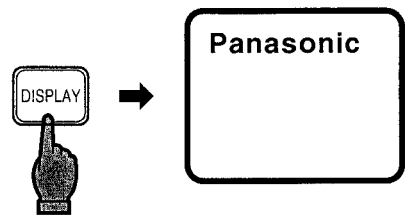
9 Press TITLE OUT Key.

The screen of the monitor is in the standby mode.

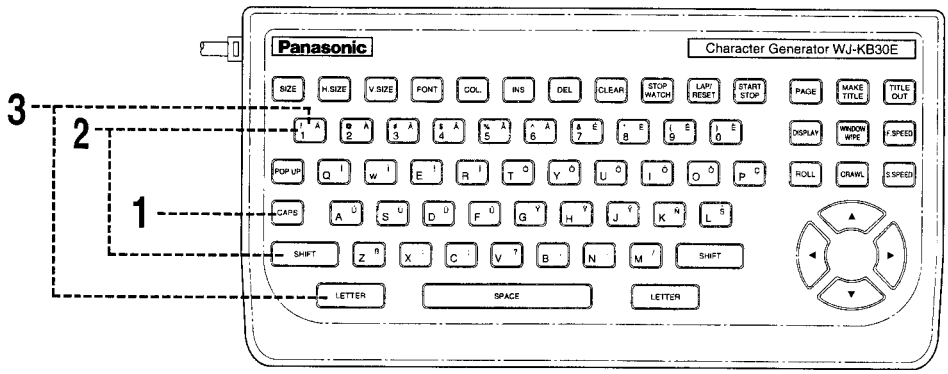


10 Press DISPLAY Key.

The input title will be displayed on the screen.



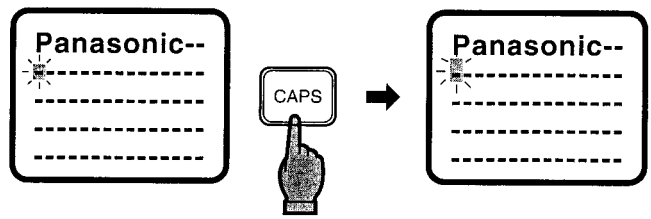
Note: When the title is nothing in the Make Title mode, the display on the screen is not available.



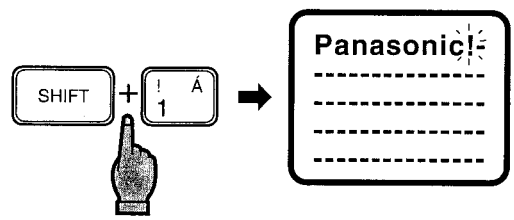
A. Character Input

1 Press CAPS Key.

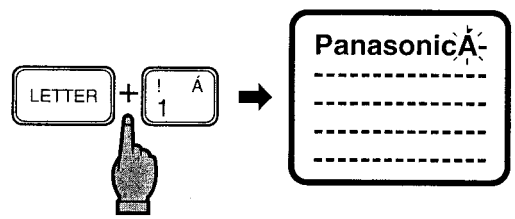
The cursor will become taller and the Capital Letters can be displayed.

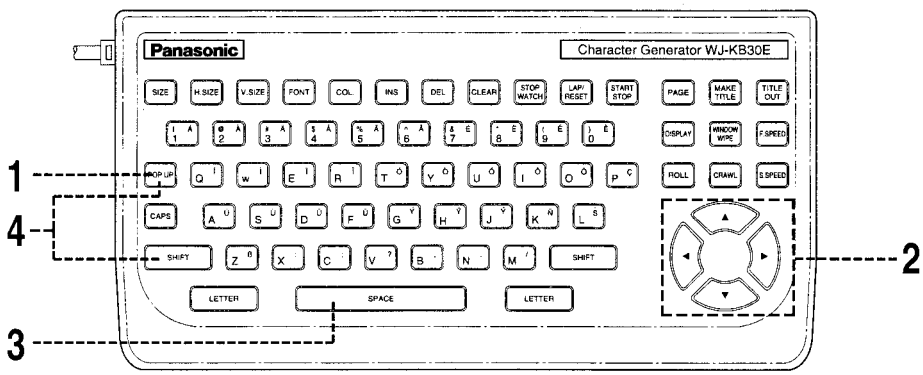


2 Press SHIFT Key + Numeral Key.



3 Press LETTER Key + Numeral or Character Key.

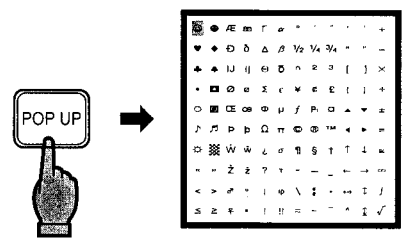




B. Special Character Input

1 Press POP UP Key.

A Pop-up Screen appears.

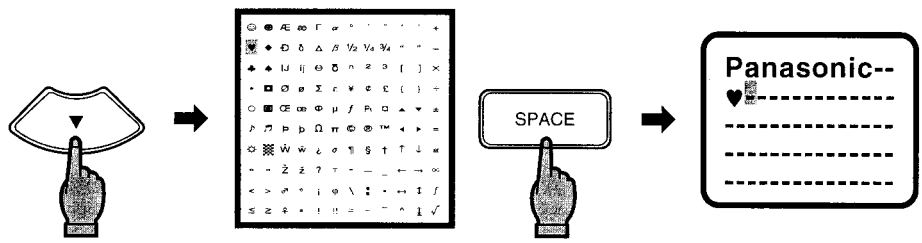


2 Press (▶), (◀), (▲) or (▼) key to move the cursor to select the desired character.

3 Press SPACE Key.

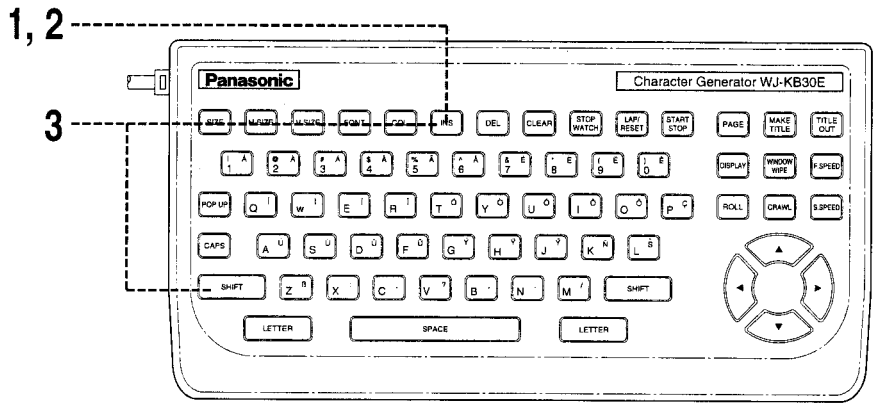
A Pop-up Window erases and a selected character is displayed in the Make Title mode.

See page 38 for the characters shown in the pop-up window.



4 Press SHIFT Key+ POP UP Key.

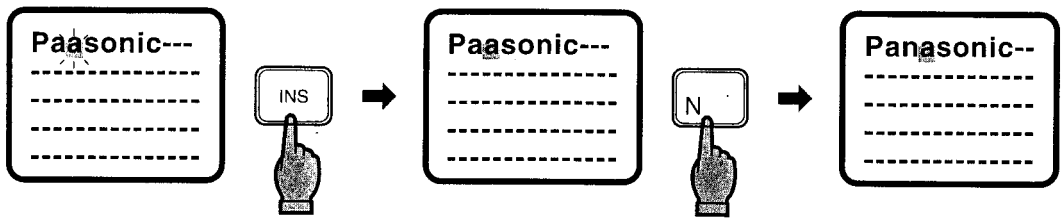
The selected character can be displayed continuously.



C. Insertion and Overwrite

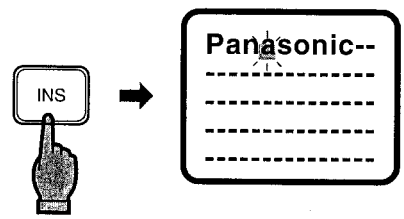
1 Press INS Key.

The cursor will stop blinking and the character is inserted where the cursor is positioned.



2 Press INS Key again.

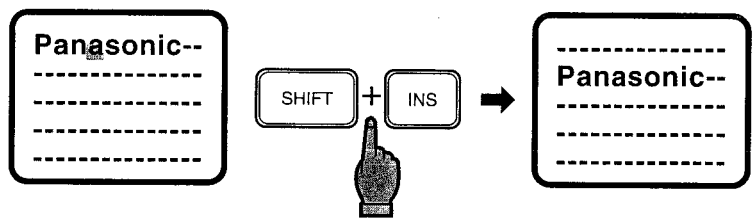
The cursor will blink and the Overwrite mode recovers.

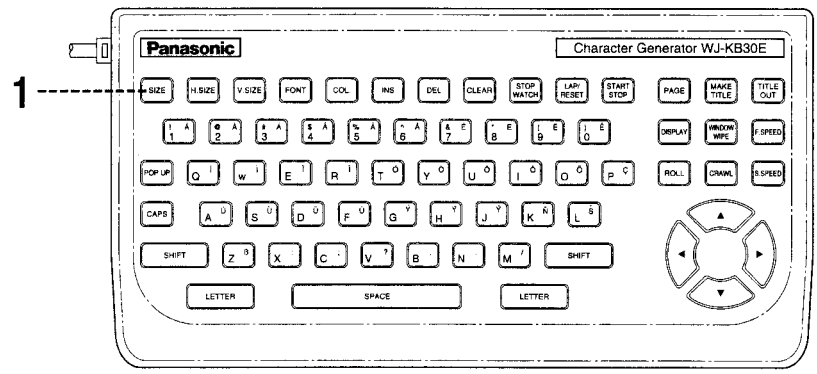


Initially, select the Overwrite mode.

3 Press SHIFT Key + INS Key.

A line is fed above the selected one.

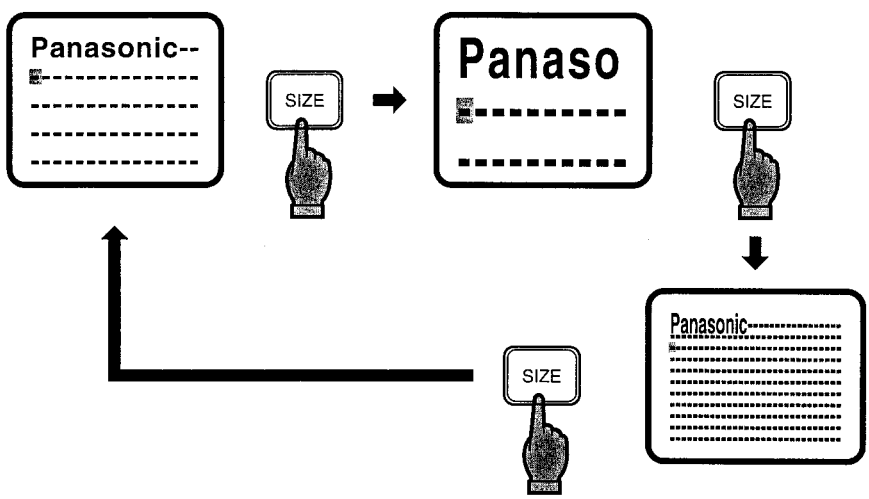




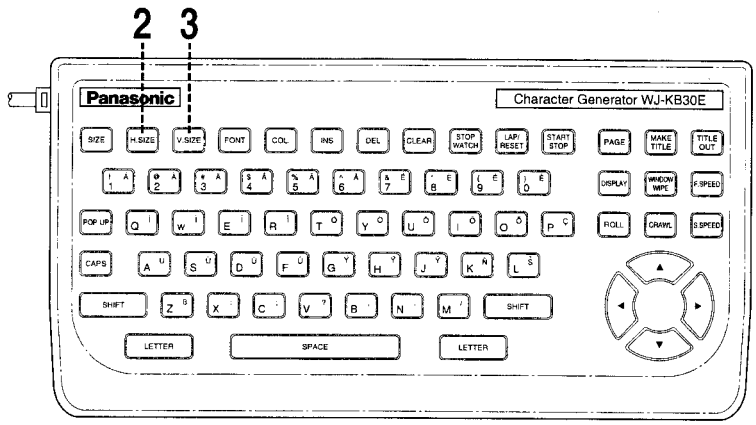
D. Character Size Selection

D-1. Character Size on the Page

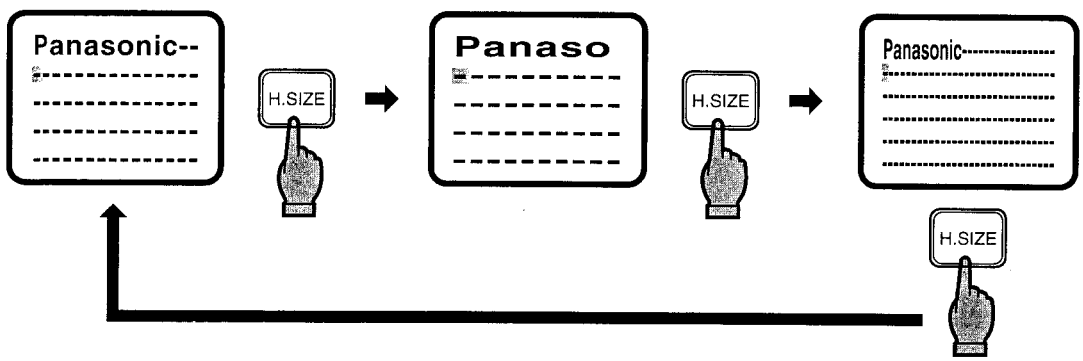
1 Press SIZE Key.



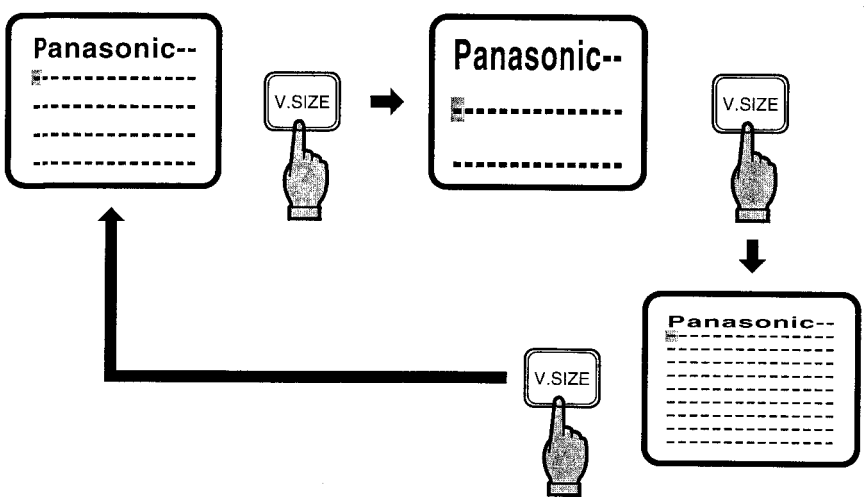
Initially, the medium size is selected.

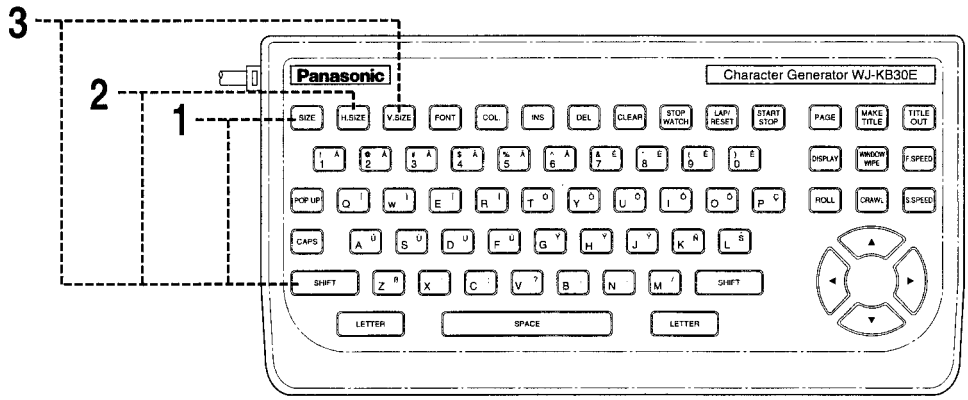


2 Press H.SIZE Key.



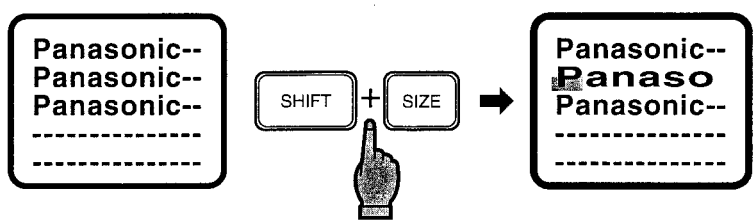
3 Press V.SIZE Key.



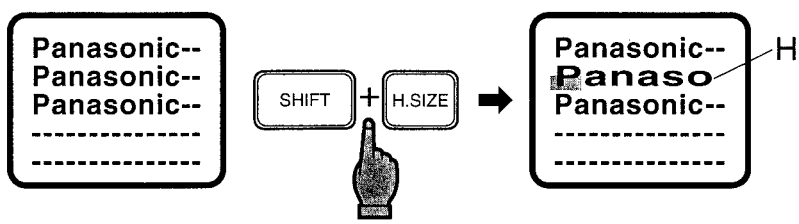


D-2. Character Size on the Selected Line

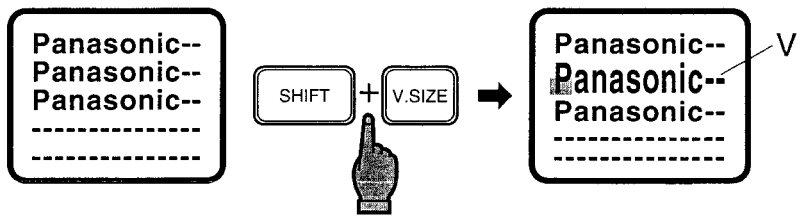
1 **Press SHIFT Key + SIZE Key.**

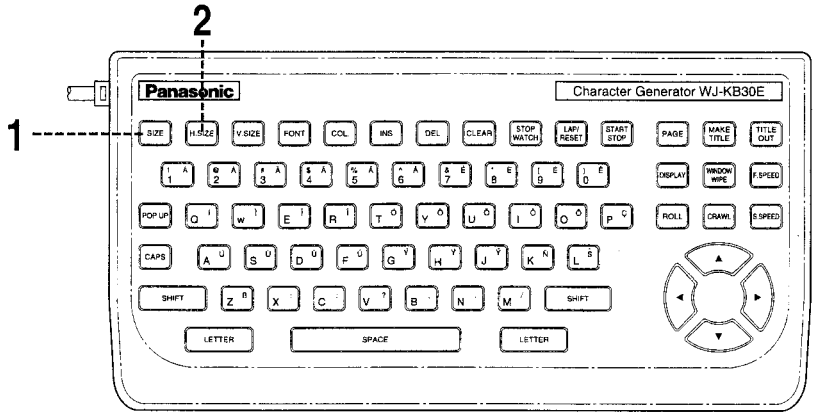


2 **Press SHIFT Key + H.SIZE Key.**



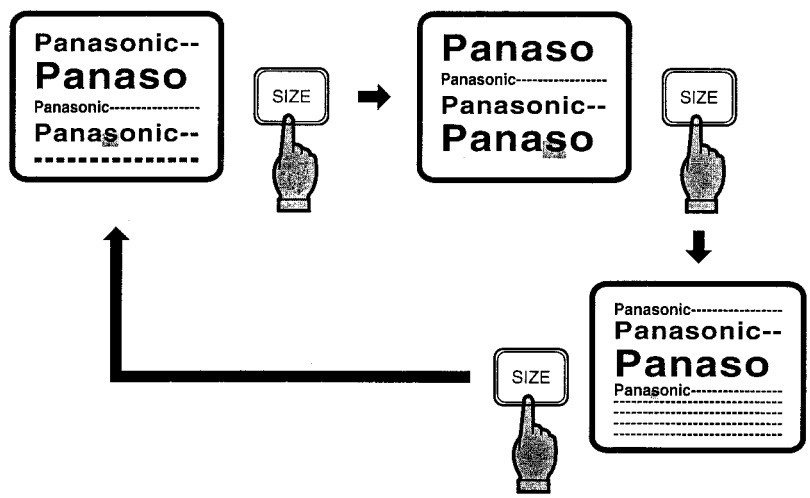
3 **Press SHIFT Key + V.SIZE Key.**



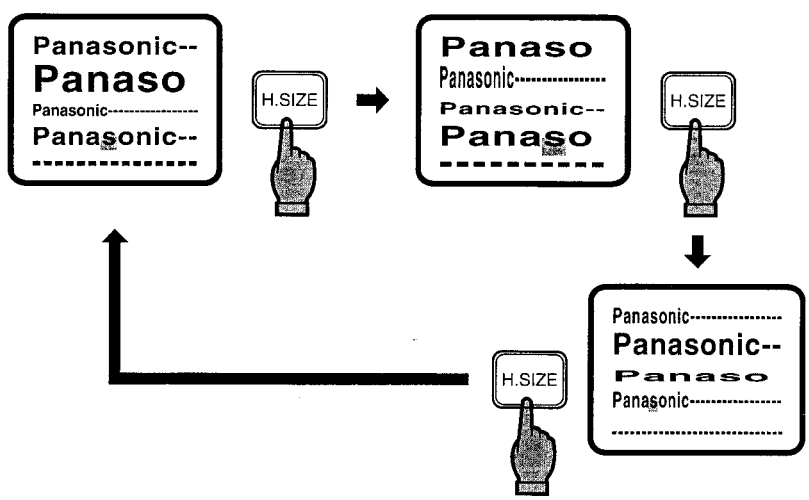


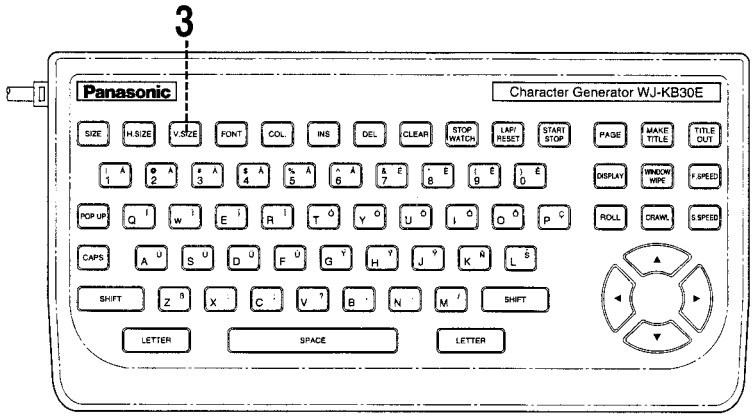
D-3. Mixed Character Size on the Selected Line

1 Press SIZE Key.

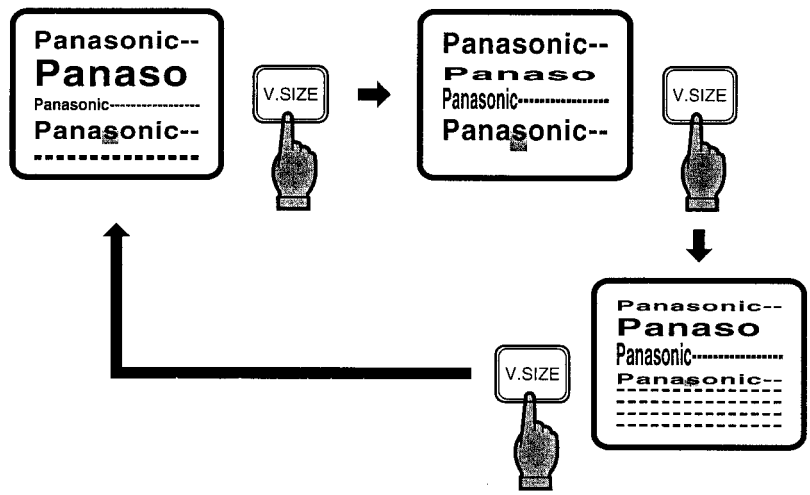


2 Press H.SIZE Key.



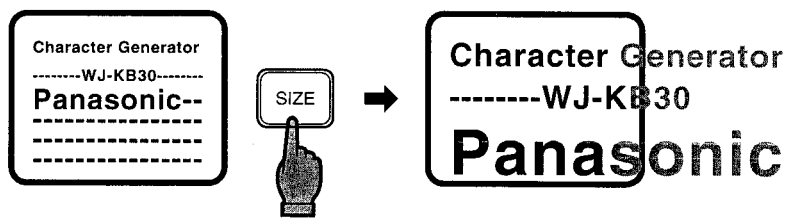


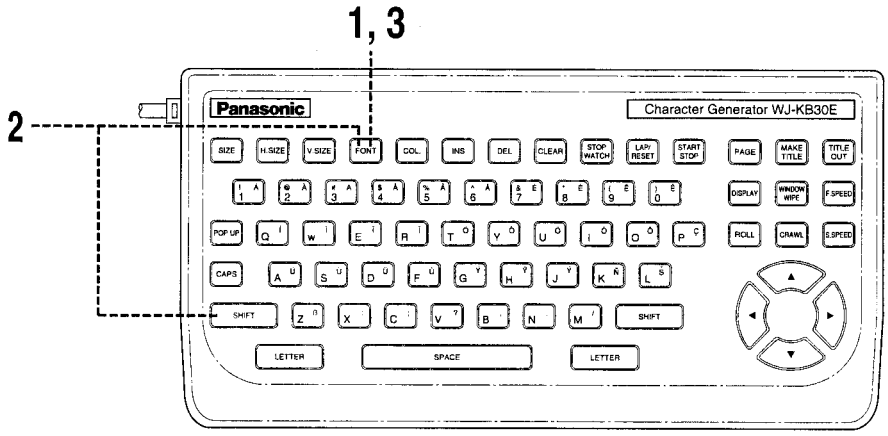
3 Press V.SIZE Key.



Note: As the character size is increased, a part of the title only is displayed on the screen in the expanded size.

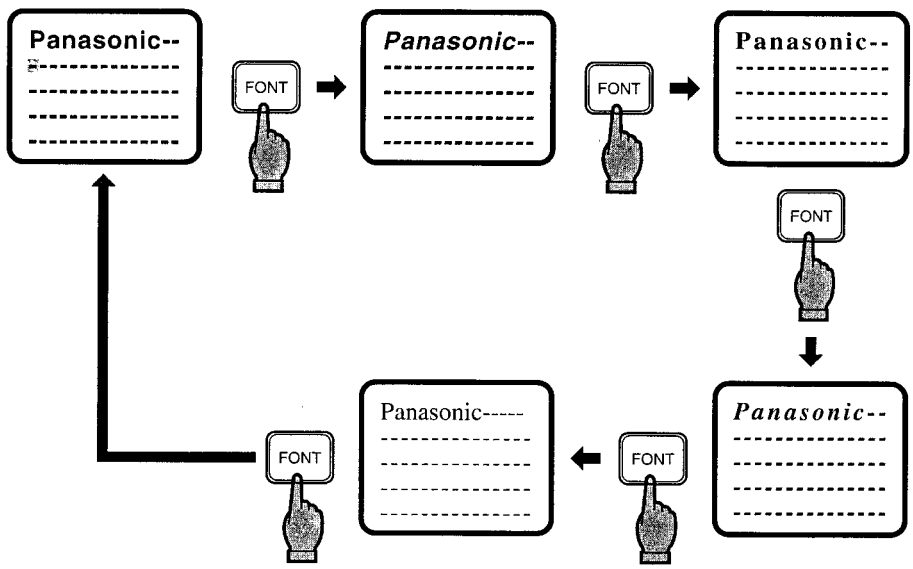
The portion of the data not displayed is also saved.
When the character size is reduced, the original character is displayed on the screen once again.
At the time of title display, only the region displayed currently on the screen is displayed.





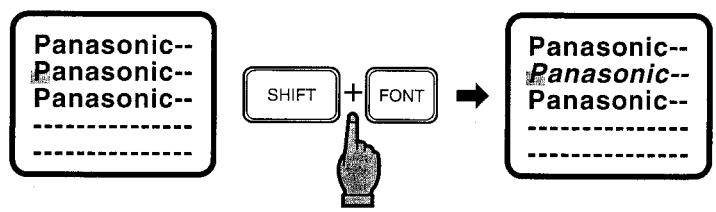
E. Font Selection

1 Press FONT Key.



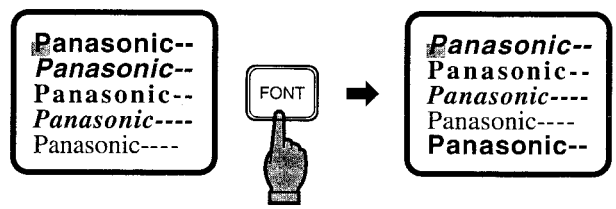
2 Press SHIFT Key + FONT Key.

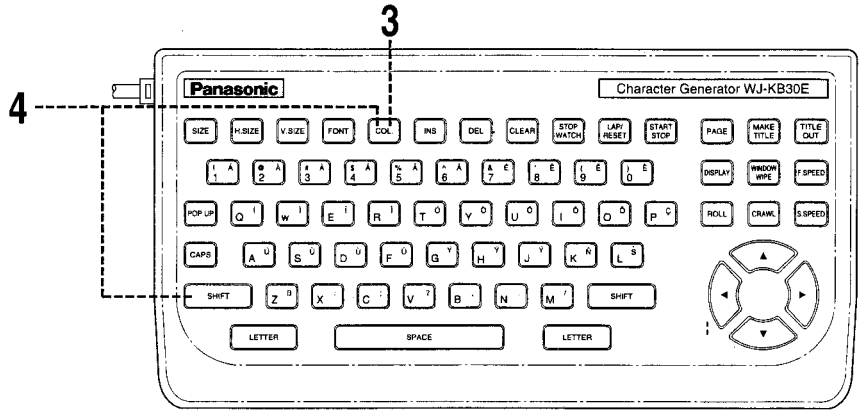
The font of characters on the selected line where the cursor is positioned is changed by toggle operation.



Mixed Font on the page

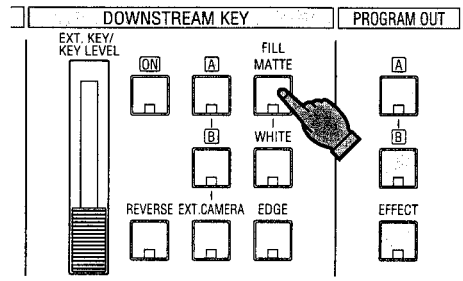
3 Press FONT Key.



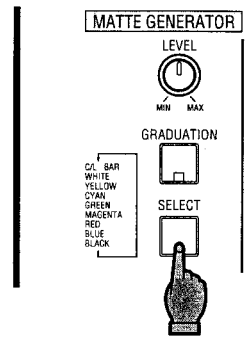


F. Colour Setting

Caution: This function is not available when used in combination with the specified AV Mixer in this moment.
The colour setting is made by specified AV Mixer.



1 Turn on FILL MATTE Button of the AV Mixer.



2 Select the colour bar by pressing the SELECT Button of the AV Mixer.

- Only when the Colour Bar is selected by the WJ-MX30, colour select from this unit is available.

3 Press COL. Key.

→White → Yellow → Cyan → Green → Magenta → Red → Blue → Black →

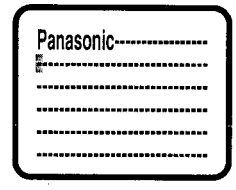
4 Press SHIFT Key + COL. Key.

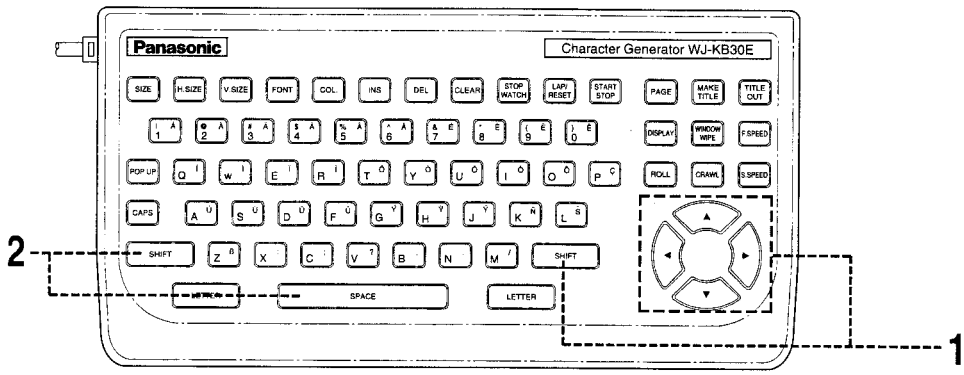
The character colour on the line ,where the cursor is positioned, changes.

→White → Yellow → Cyan → Green → Magenta → Red → Blue → Black →

Note:

1. When pressing the Back Colour Button of the Mixer, the colour setting is controlled from the AV Mixer side.
2. When setting the colour for the following character size, be sure to add the edge by using the AV Mixer WJ-MX30. Otherwise, the character colour will run.

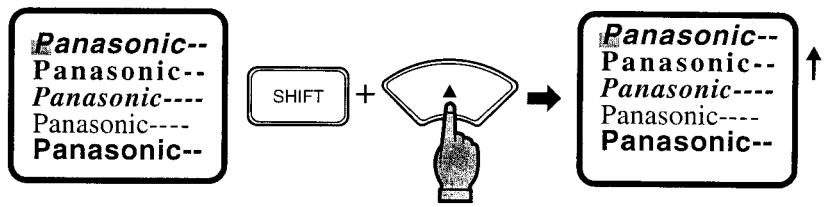




G. Fine Adjustment of Character Position

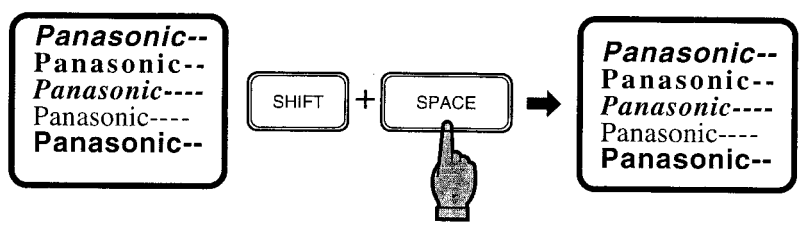
1 Press SHIFT Key + (▶), (◀), (▲) or (▼) Key.

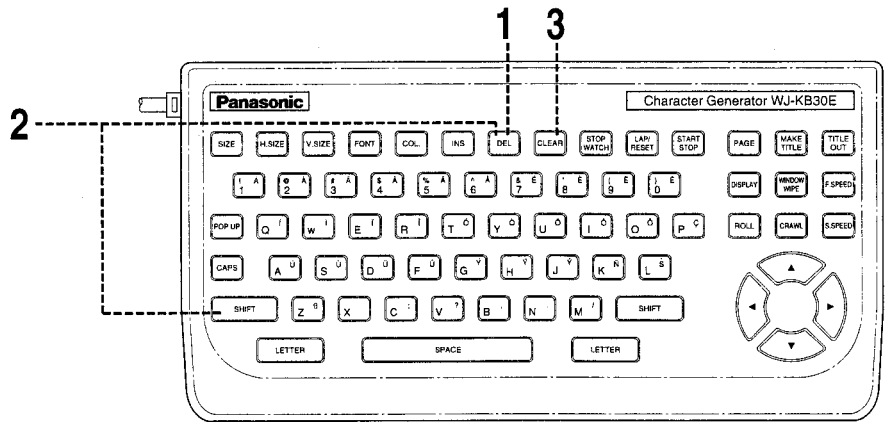
The screen shifts one dot at every pressing.
Its range is ±10 dots vertically and ±20 dots horizontally from the initial position.



2 Press SHIFT Key + SPACE Key.

The character position is reset.





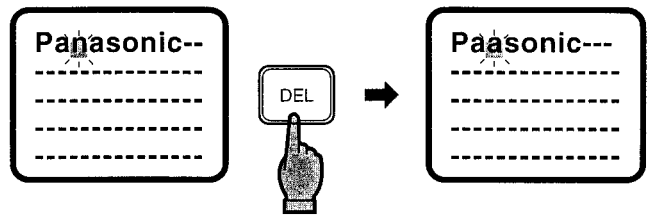
H. Deletion

Move Cursor onto the desired position.

H-1. Character Deletion

1 Press DEL Key.

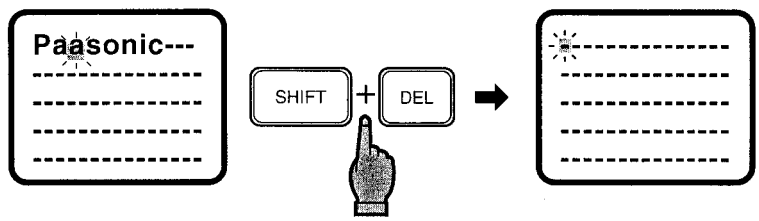
The character ,where the cursor is positioned, deletes.



H-2. Line Deletion

2 Press SHIFT Key + DEL Key.

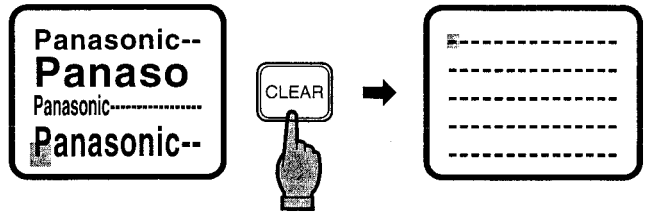
The selected line deletes.



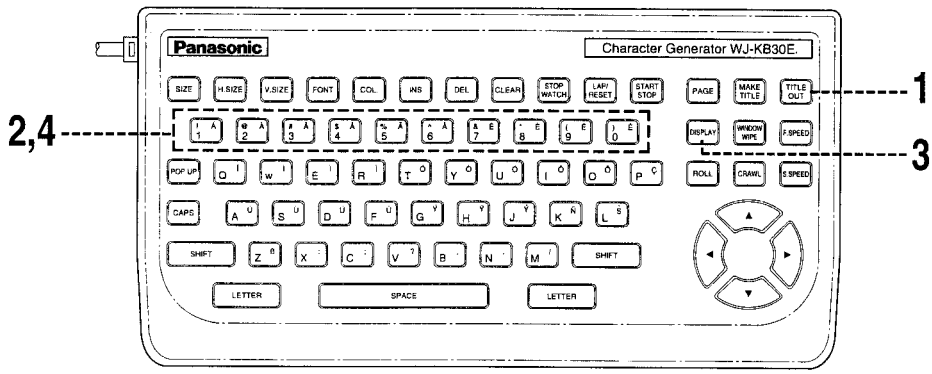
H-3. Page Reset

3 Press CLEAR Key.

The display page is reset.

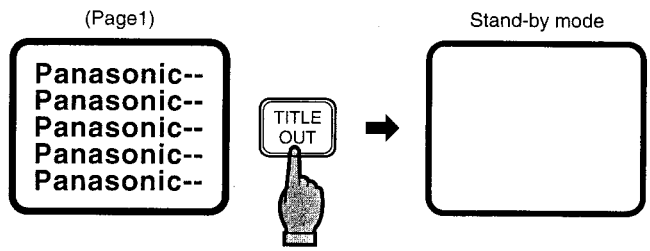


TITLE OUT OPERATION



1 **Press TITLE OUT Key.**

This state is Stand-by mode.



2 **Press the Numeral key of desired page.**

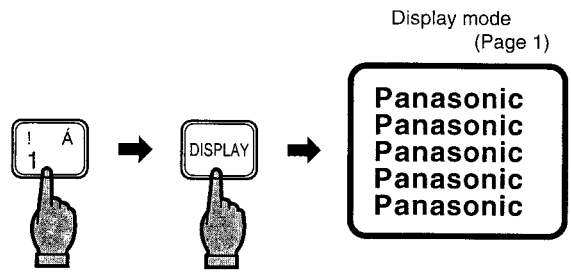
The selected page number is not displayed.

Note: When selecting page 10, press 0 (zero) key.

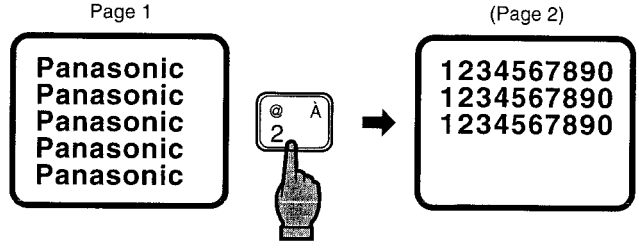
3 **Press DISPLAY Key.**

The title of selected page is displayed on the screen.

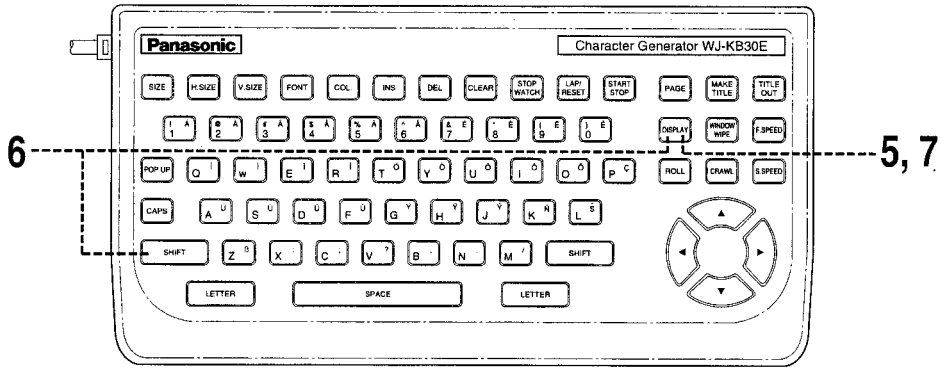
This state is Display mode.



4 **Press the Numeral key of desired page.**

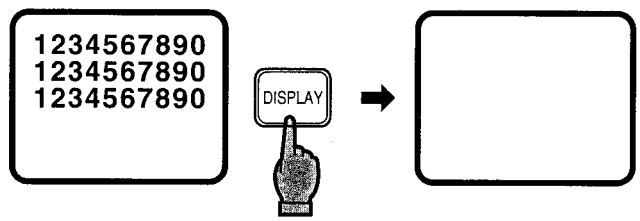


The page selection can be made.

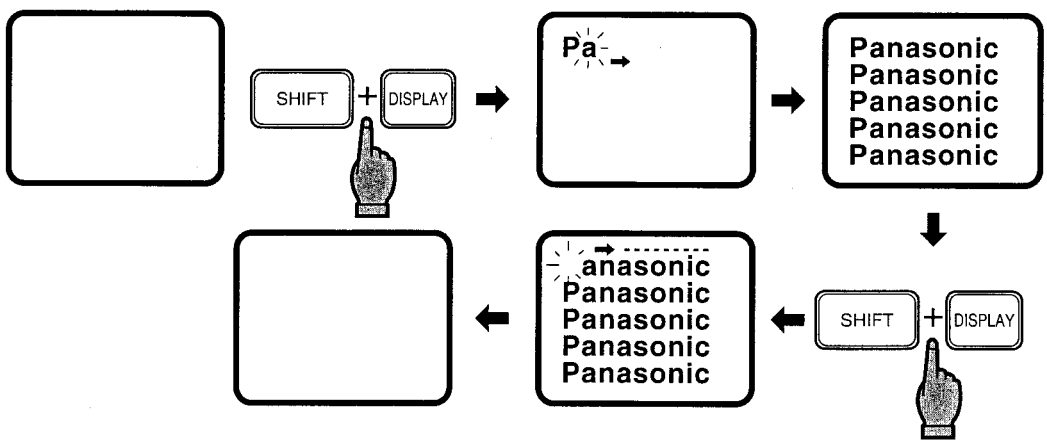


5 Press DISPLAY Key.

The title displayed on the screen disappears.



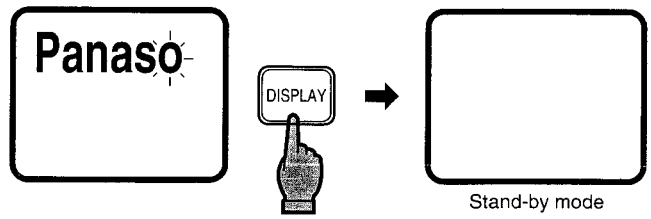
6 Press SHIFT Key + DISPLAY Key.

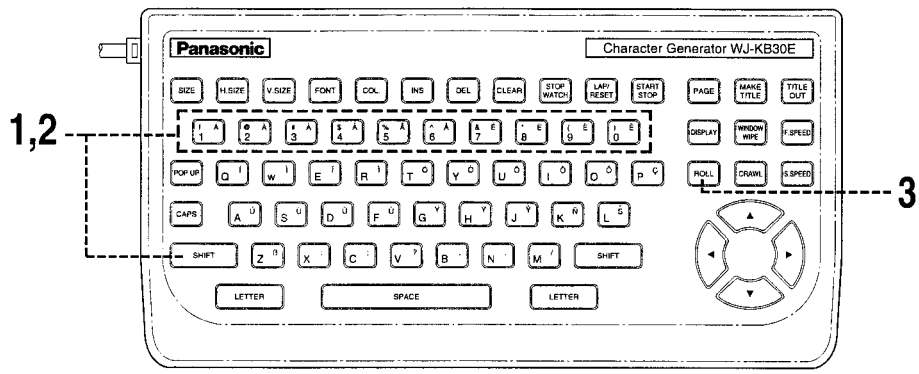


The title is displayed or erased one by one on the selected page.

7 Press DISPLAY Key during the above operation.

This unit will be in the standby mode.

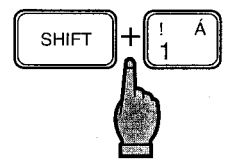




A. Roll

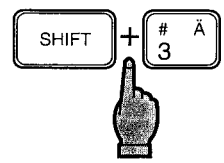
1 Press SHIFT Key + Numeral (which is the number of the start page) Key.

The start page can be set.



2 Press SHIFT Key + Numeral (which is the number of the end page) Key.

The end page can be set.



Note :

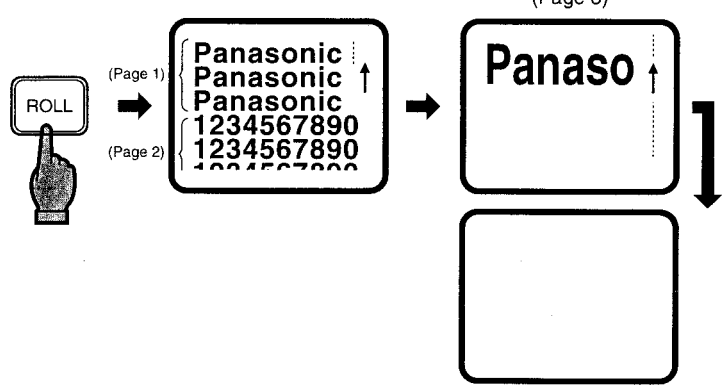
1. When the beginning page number is larger than the ending page number, pages sequentially from the beginning page till 10th page are displayed first, and the 1 st page till the ending page is then displayed.

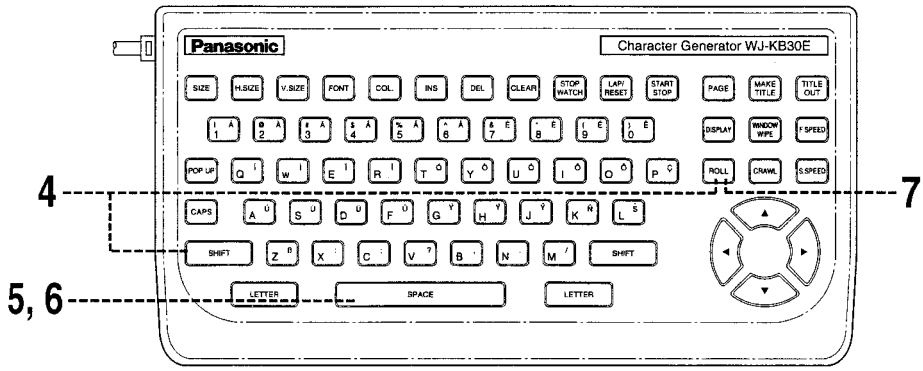
   → Ending Page (Ex. Page 3) Beginning Page (Ex. Page 5)→
   Page 1 ← Page 10

2. Initially, the beginning page is page 1, and the ending page is page 10.
3. when the Shift Key (SHIFT) + Numeral Keys are pressed three times or more, the last two numbers are valid.

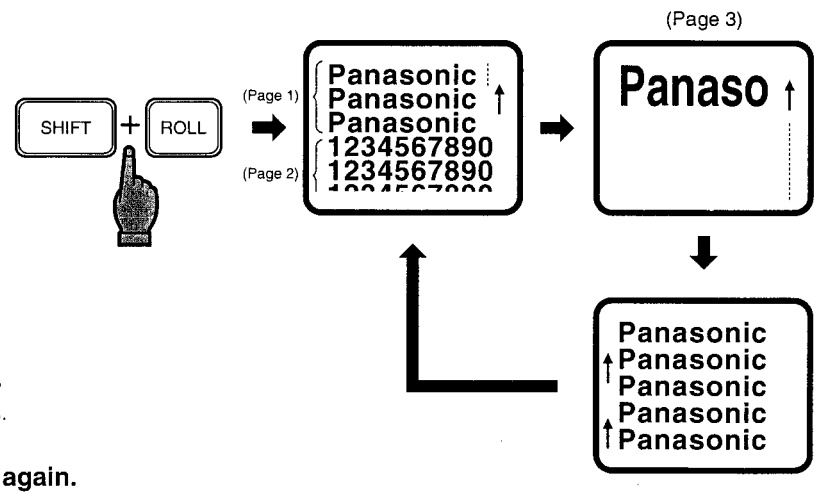
3 Press ROLL Key.

The roll function operates with a cycle.





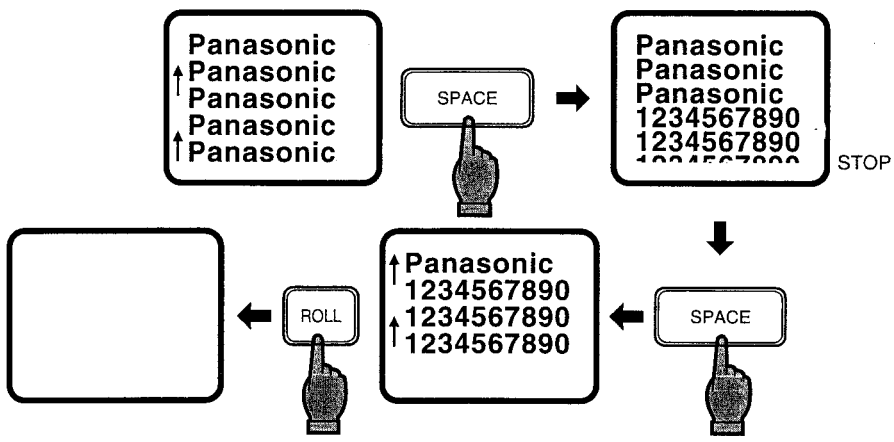
4 Press SHIFT Key + ROLL Key.
The roll function operates repeatedly.

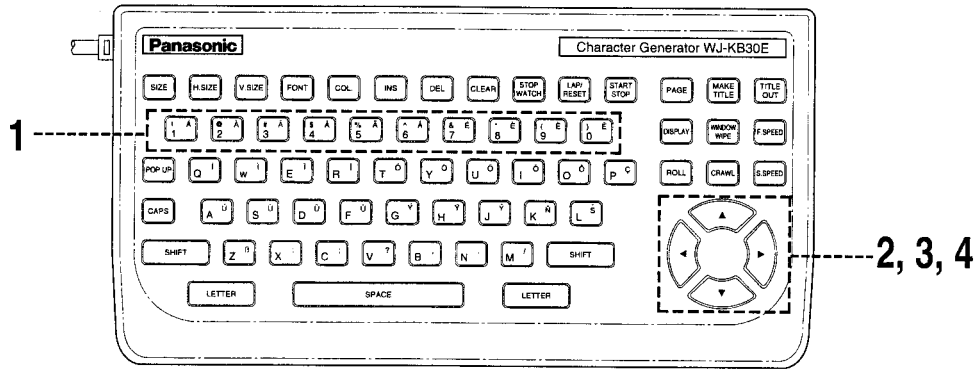


5 Press SPACE Key.
The roll function stops.

6 Press SPACE Key again.
The roll function re-operates.

7 Press ROLL Key.
The roll function is canceled.



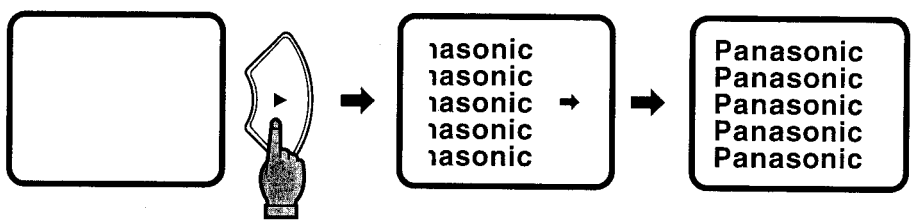


B. Scroll

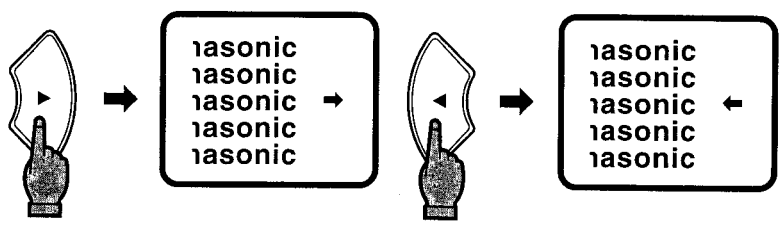
= In the Stand-by mode =

1 Press the Numeral key of the desired page.

2 Press (▶), (◀), (▲) or (▼) Key.
The scrolled title stops at the centre.

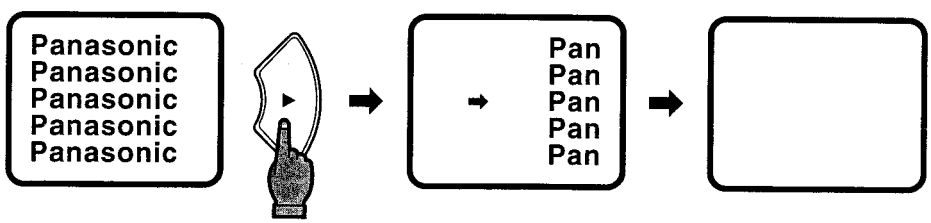


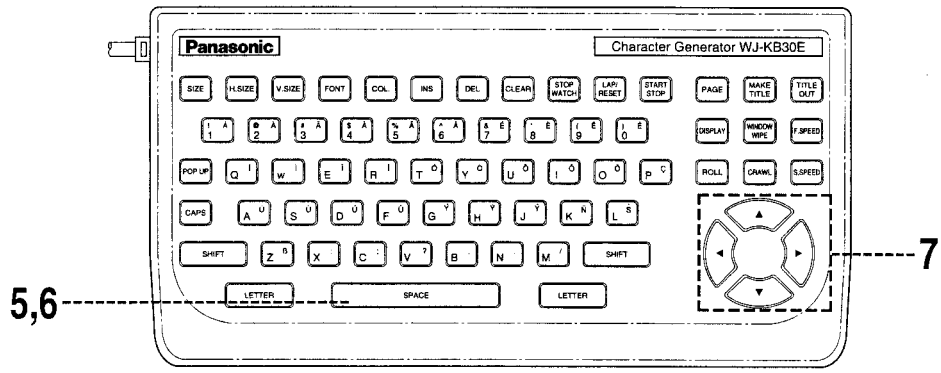
3 Press the Opposite Arrow Key.
The scroll direction reverses.



= In the Display mode =

4 Press (▶), (◀), (▲) or (▼) Key.



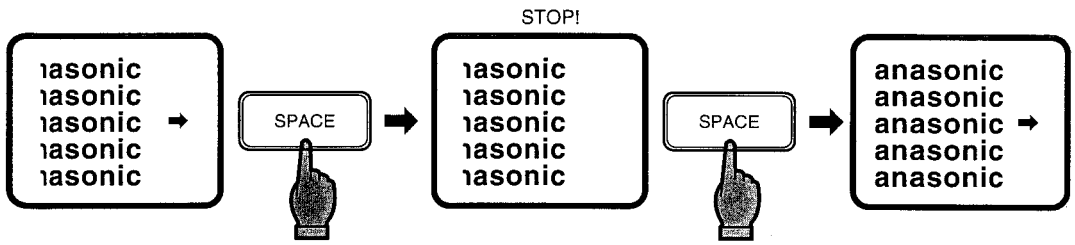


5 Press SPACE Key during the scroll.

The scroll operation stops.

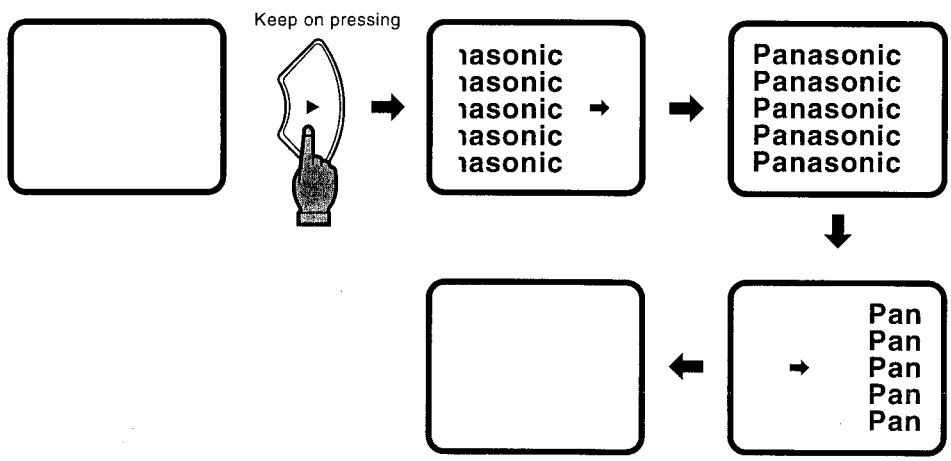
6 Press SPACE Key again.

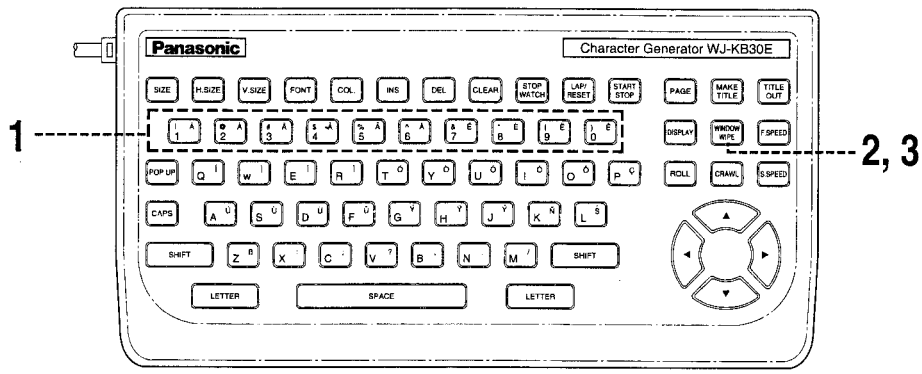
The scroll function re-operates.



7 Keep on pressing (▶), (◀), (▲) or (▼) Key.

The title scrolls out toward an arrow direction without stopping.



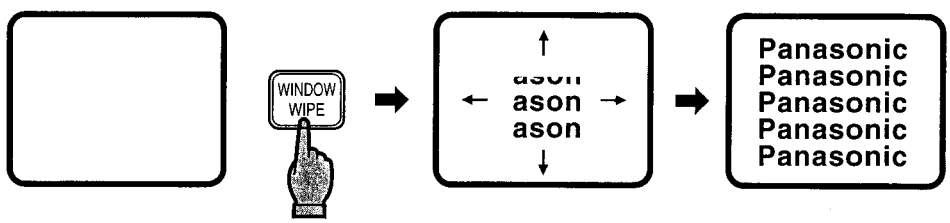


C. Window Wipe

= In the Stand-by mode =

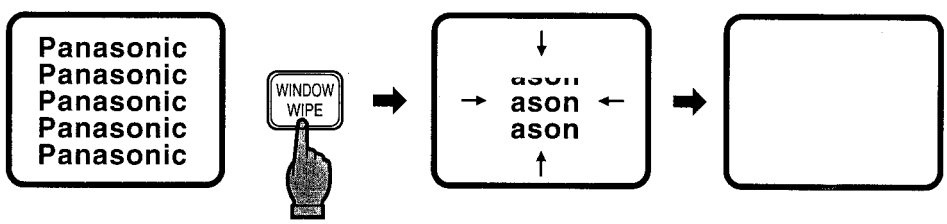
1 Press the Numeral key of the desired page.

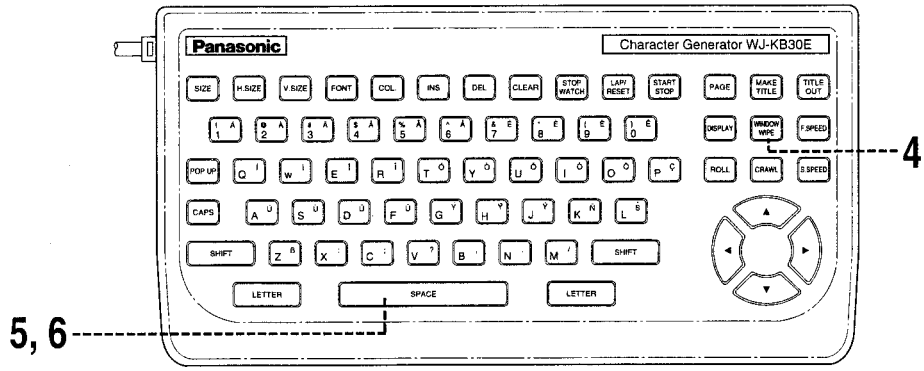
2 Press WINDOW WIPE Key.



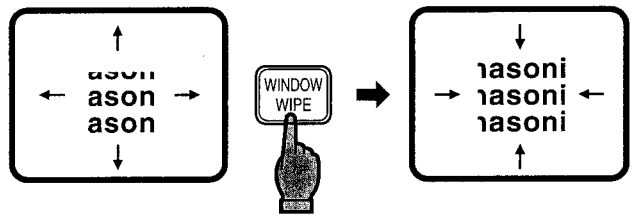
= In the Display mode =

3 Press WINDOW WIPE Key.





4 Press WINDOW WIPE Key during Window Wipe.

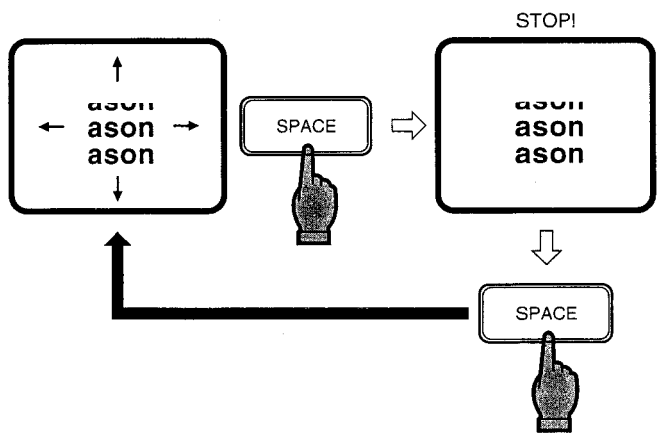


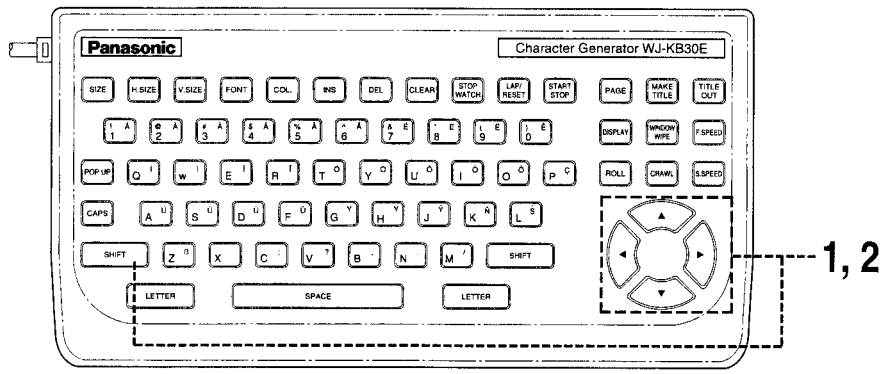
5 Press SPACE Key.

The Window Wipe operation stops.

6 Press SPACE Key again.

The Window Wipe function re-operates.

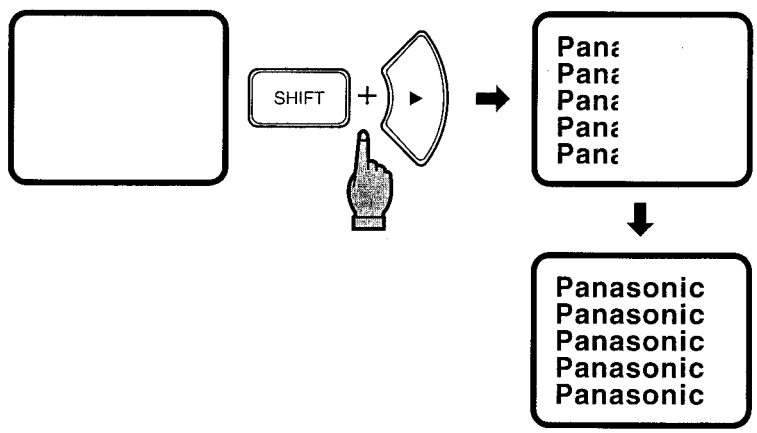




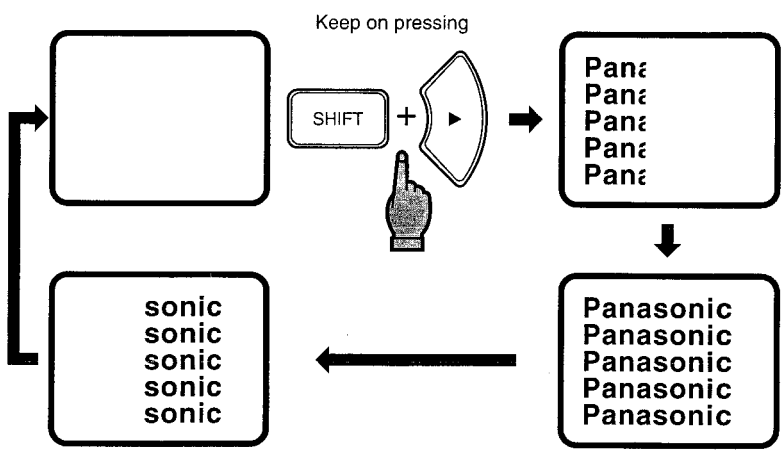
D. Wipe

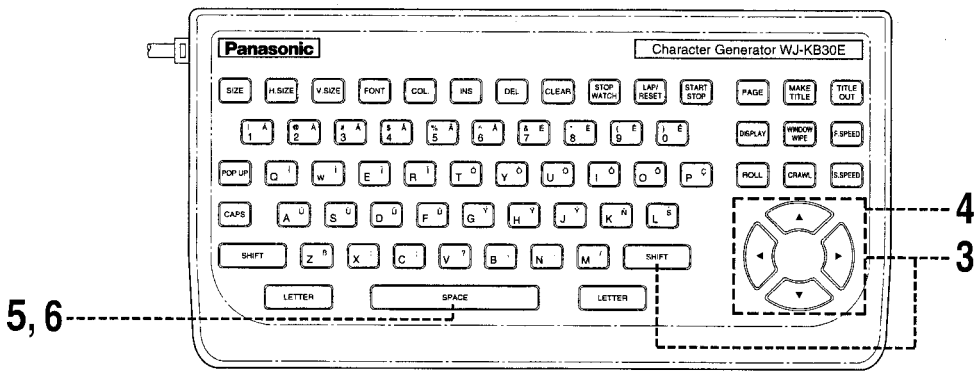
= In the Stand-by mode =

1 **Press SHIFT Key + (▶), (◀), (▲) or (▼) Key.**



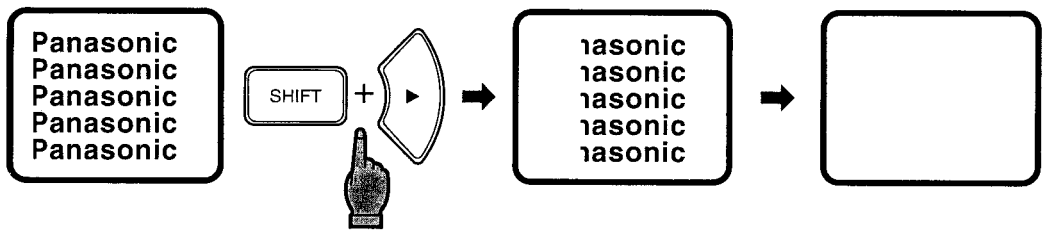
2 **Keep on pressing SHIFT Key + (▶), (◀), (▲) or (▼) Key.**





= In the Display mode =

3 Press SHIFT Key + (▶), (◀), (▲) or (▼) Key.



4 Press the Opposite Key during the Wipe.

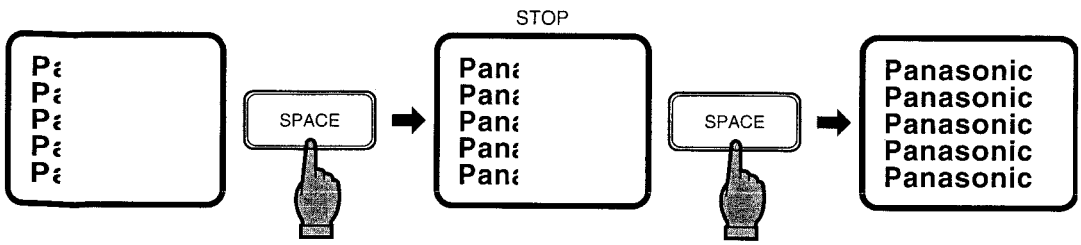
The reverse operation can be made.

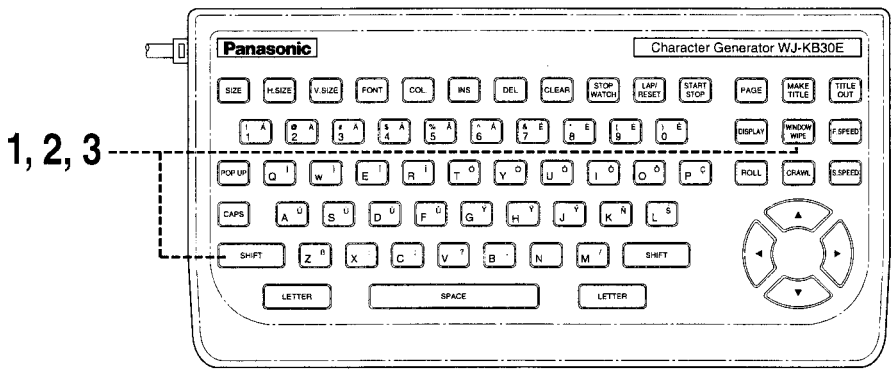
5 Press SPACE Key during the Wipe.

The wipe operation stops.

6 Press SPACE Key again.

The wipe function re-operates.

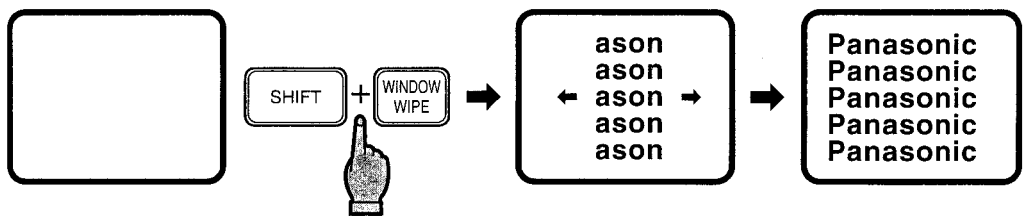




E. Curtain Wipe

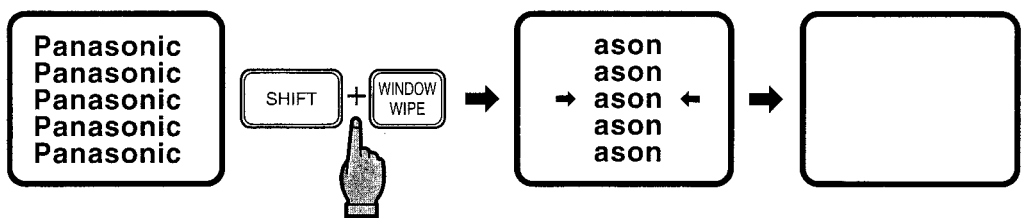
= In the Stand-by mode =

1 Press SHIFT Key + WINDOW WIPE Key.



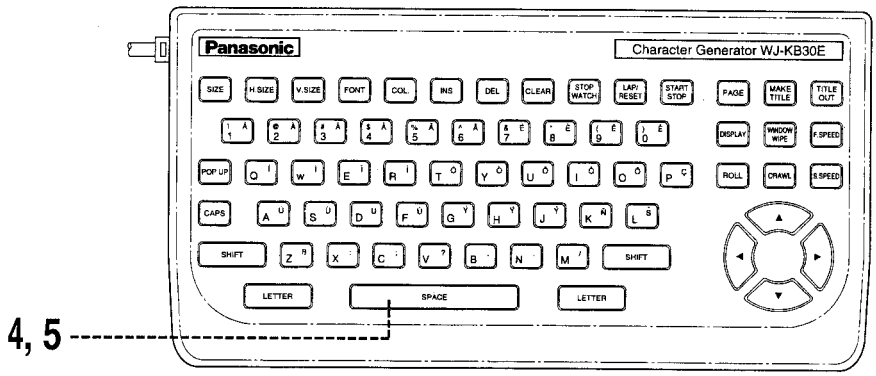
= In the Display mode =

2 Press SHIFT Key + WINDOW WIPE Key.



3 Press SHIFT Key + WINDOW WIPE Key during the Curtain Wipe.

The reverse operation can be made.

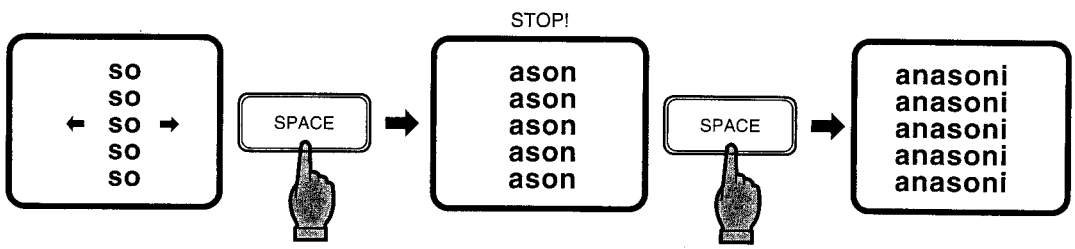


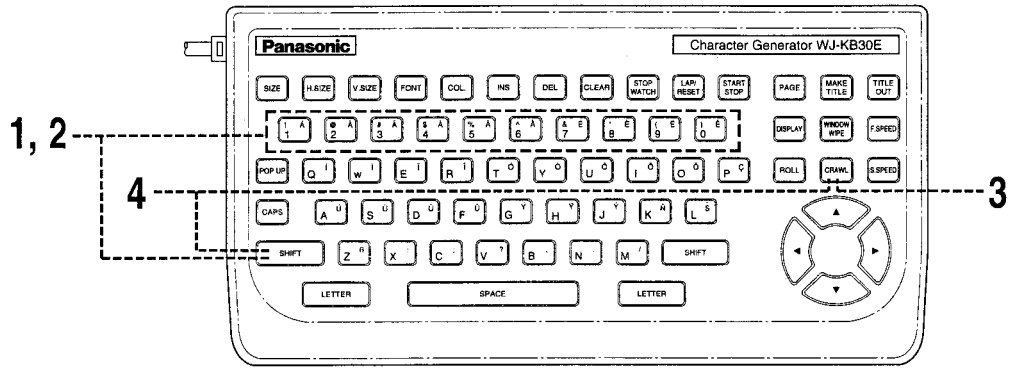
4 Press SPACE Key during the Curtain Wipe.

The Curtain Wipe operation stops.

5 Press SPACE Key again.

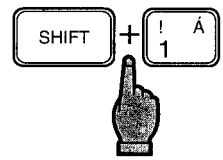
The Curtain Wipe function re-operates.



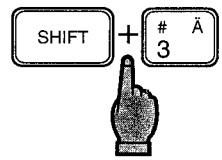


F. Crawl

= In the Stand-by mode =



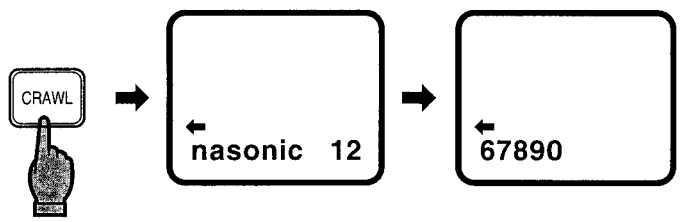
1 **Press SHIFT Key + Numeral (which is the number of the start page) Key.**



2 **Press SHIFT Key + Numeral (which is the number of the end page) Key.**

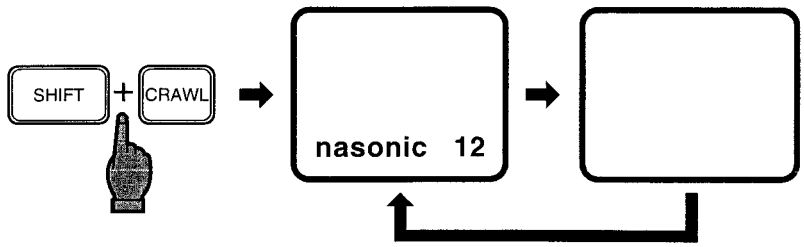
3 **Press CRAWL Key.**

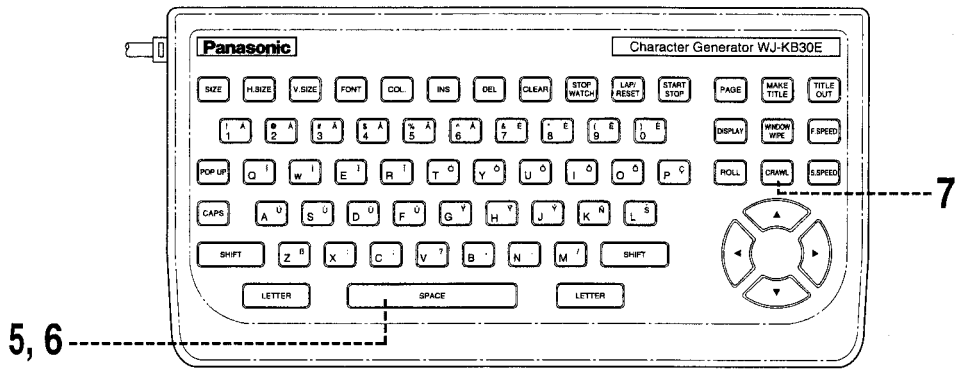
The Crawl function operates with a cycle.



4 **Press SHIFT Key + CRAWL Key.**

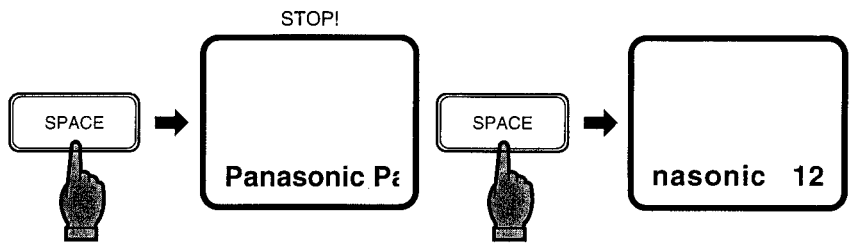
The Crawl function operates continuously.



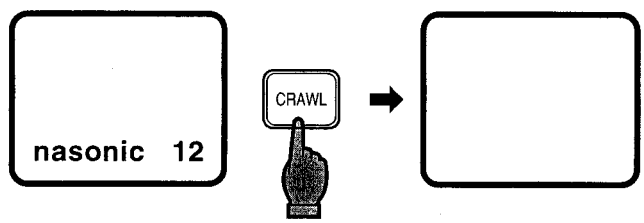


5 Press SPACE Key during the Crawl.
The Crawl function stops.

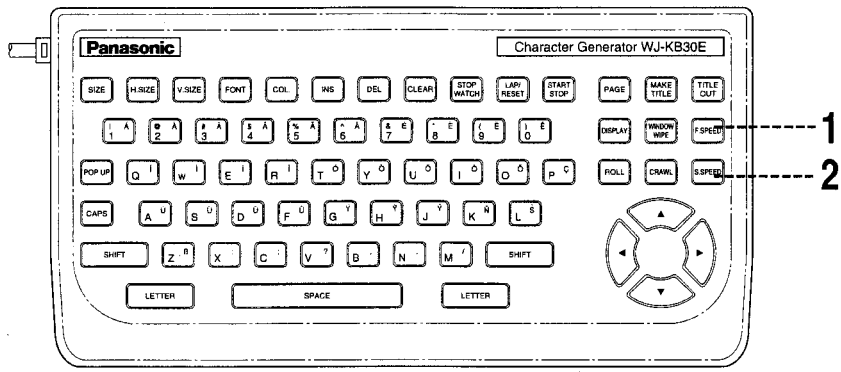
6 Press SPACE Key again.
The Crawl function re-operates.



7 Press CRAWL Key during the Crawl.
The Crawl operation is canceled and the title is erased from screen.



Note: The character colour of the line depends on the top line of the beginning page.



G. Speed Adjustment

Precaution:

The speed adjustment is effective while the title output is being made.

1 Press F.SPEED Key.

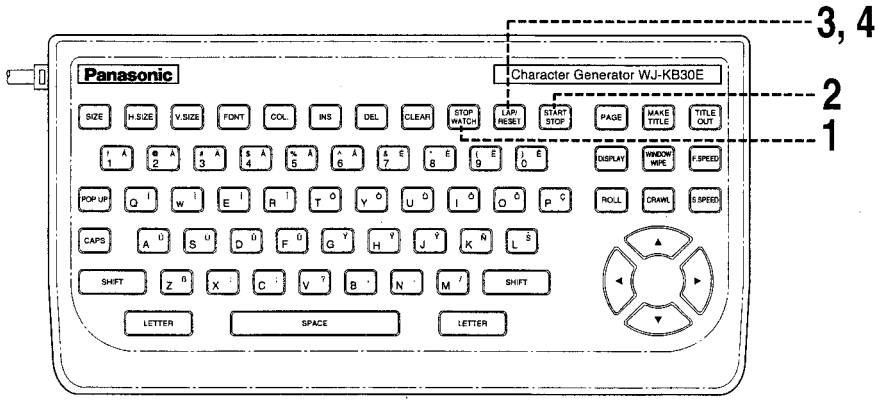
The speed increases at 3 steps.

Note: When the speed is set to the highest one, it can not be changed even if this key is pressed.
Use the Slow Speed Selection Key (21) to decrease the speed.

2 Press S.SPEED Key.

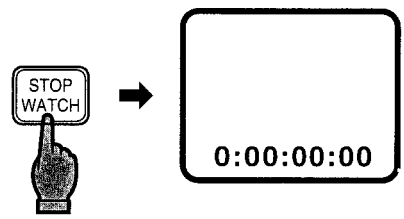
The speed decreases at 3 steps.

Note: When the speed is set to the lowest one, it can not be changed even if this key is pressed.
Use the Fast Speed Selection Key (18) to increase the speed.



H. Stop Watch

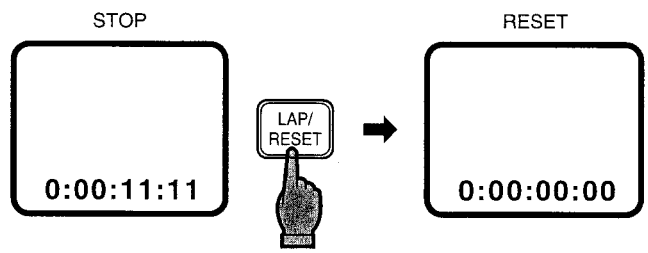
1 Press STOP WATCH Key.



2 Press START STOP Key.

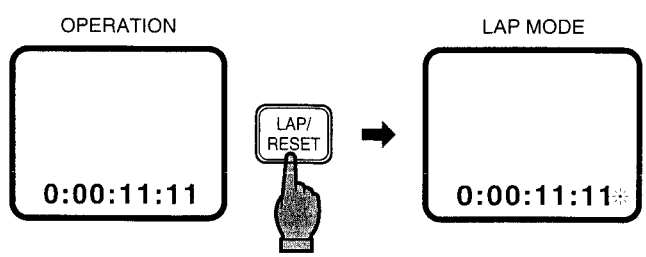
3 Press LAP/RESET Key during the stopping.

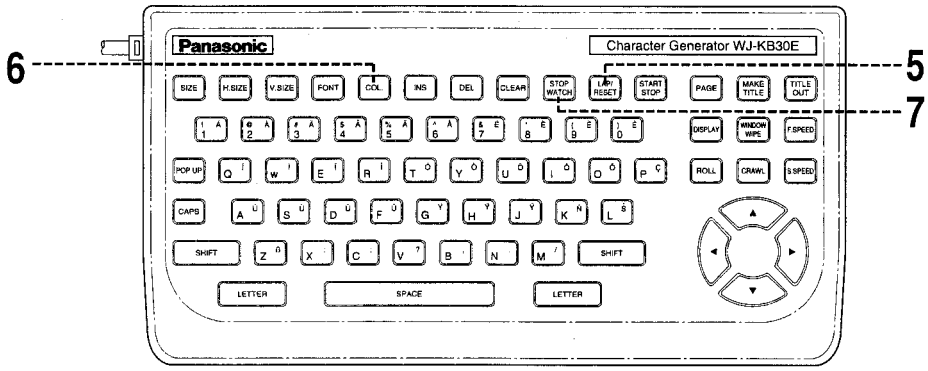
The stop watch time can be reset.



4 Press LAP/RESET Key during the operation.

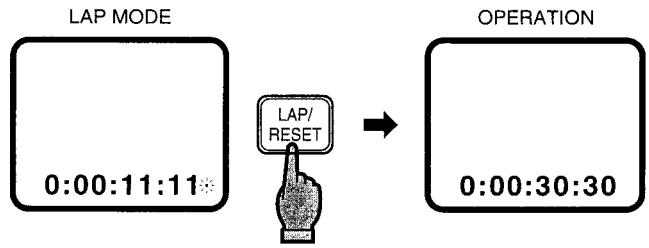
The stop watch mode is in the Lap mode.





5 Press LAP/RESET Key again.

The Lap mode can be released.



6 Press COL. Key.

The display colour of stop watch can be selected. (In the combination with the WJ-MX30)

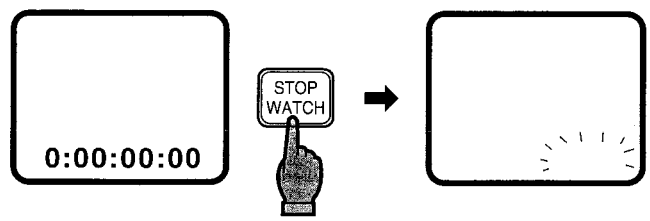
Note: When the stop watch time is displayed, only the Display (DISPLAY)(16), Numeral and Make Title (MAKE TITLE) keys are varied.

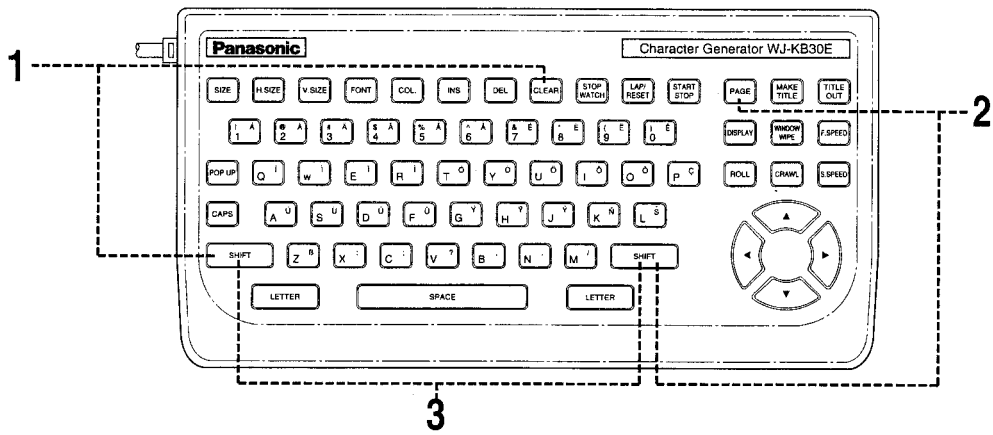
The stop watch time is displayed up to 9 hours 59 minutes 59 seconds 99.

During operation of such functions as Scroll, Wipe, Window Wipe, Roll, or Crawl, the Stop Watch function can not be activated.

7 Press STOP WATCH Key again.

The stop watch display is canceled.

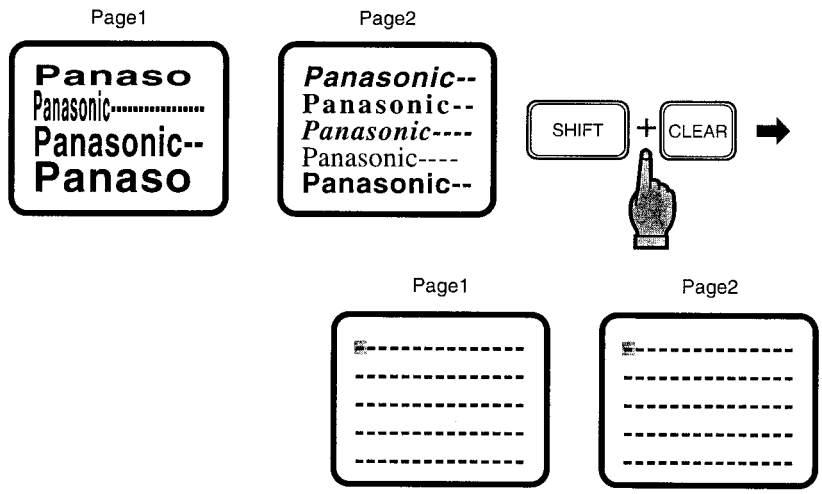




Reset

1 Press SHIFT Key + CLEAR Key.

All of page is defaulted.

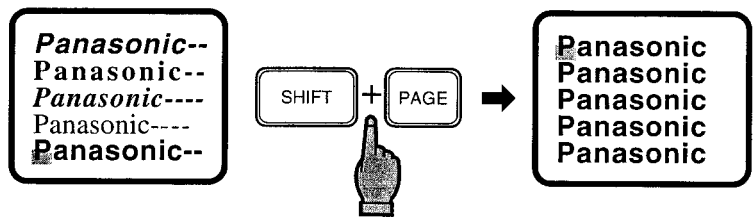


Initialization

2 Press SHIFT Key + PAGE Key.

The selected Page is initialized.

The set size, font, colour and cursor position are defaulted.



Deboot

3 If keys had been locked, turn off this unit. And then turn on this unit while pressing the SHIFT Key + SHIFT Key simultaneously.

POP UP WINDOW

☺	☻	Æ	æ	Γ	α	º	´	″	‘	’	+
♥	◆	Ð	ð	Δ	β	½	¼	¾	“	”	–
♣	♠	IJ	ij	Θ	δ	n	2	3	[	]	×
•	◘	Ø	ø	Σ	ε	¥	¢	£	{	}	÷
○	◙	Œ	œ	Φ	μ	ƒ	Pt	¤	▲	▼	±
♪	♬	Þ	þ	Ω	π	©	®	TM	◄	►	=
☼	▩	Ŵ	ŵ	¿	σ	¶	§	†	↑	↓	≡
«	»	Ž	ž	?	τ	‐	—	_	←	→	∞
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≤	≥	♀	a	!	‼	≈	~	˜	^	↨	√

SPECIFICATIONS

Power Source :	9V DC, 100mA
Ambient Operating Temperature :	+5°C - +40°C (41°F - 104°F)
Dimensions :	258(W) X 32(H) X 131(D) mm
	10-3/16"(W) X 1-1/4"(H) X 5-3/16"(D)
Weight (without batteries) :	650g (1.43 lbs.)

Weight and dimensions indicated are approximate.
Specifications are subject to change without notice.